

# Curriculum degli studi e dell'attività scientifica e didattica di Cesare Bini.

Nato a Jesi (AN) il 21/08/1964. Residente a Roma, Via Varsavia 10, 00142. Sposato, due figli.  
Sito web <http://www.roma1.infn.it/people/bini>

## 1 Studi e carriera accademica.

- Luglio 1983:  
Diploma di Maturità Scientifica presso il Liceo Scientifico "Leonardo da Vinci" di Jesi, con votazione 60/60.
- Ottobre 1988:  
Laurea in Fisica all'Università La Sapienza di Roma con votazione 110/110 e lode. Titolo della tesi di laurea: "Analisi delle direzioni di arrivo di gruppi di muoni paralleli rivelati dal rivelatore NADIR", relatore D.Zanello.
- Dicembre 1989:  
Vincitore del concorso per l'ammissione al Dottorato di Ricerca in Fisica (V ciclo) presso l'Università La Sapienza di Roma.
- Novembre 1992:  
Completamento del triennio di Dottorato di Ricerca e presentazione della Tesi di Dottorato dal titolo: "Misura del rapporto di decadimento della risonanza  $J/\psi$  in nucleone - antinucleone".
- Marzo 1993:  
Conseguimento del titolo di Dottore di Ricerca.
- Marzo 1993:  
Vincitore di concorso nazionale INFN per Borse di Studio post-doc.
- Gennaio 1994:  
Vincitore di concorso per Ricercatore universitario, settore B01, presso la Facoltà di Scienza Matematiche Fisiche e Naturali dell'Università La Sapienza di Roma.
- Maggio 1994:  
Presa di servizio come Ricercatore universitario. Afferenza al Dipartimento di Fisica. Incarico di ricerca presso l'INFN.
- Maggio 1997:  
Conferma nel ruolo di Ricercatore universitario.
- Giugno 2003:  
Conseguimento di idoneità come Professore Associato, alla procedura di valutazione comparativa presso la Facoltà di Scienze Matematiche Fisiche e Naturali dell'Università degli Studi di Napoli Federico II per il settore FIS/01 (codice identificativo A/04/2002).

- Febbraio 2004:  
Chiamata come Professore Associato dalla Facoltà di Scienze Matematiche Fisiche e Naturali dell'Università La Sapienza di Roma.
- Gennaio 2005:  
Preso di servizio come Professore Associato presso la Facoltà di Scienze Matematiche Fisiche e Naturali dell'Università La Sapienza di Roma. Afferenza al Dipartimento di Fisica.
- Gennaio 2008:  
Conferma nel ruolo di Professore Associato.
- Gennaio 2014:  
Conseguimento dell'Abilitazione Scientifica Nazionale come Professore Ordinario per il settore concorsuale 02/A1 Fisica Sperimentale delle Interazioni Fondamentali.

## 2 Attività di ricerca.

Le attività di ricerca di Cesare Bini si sono svolte tutte nell'ambito della fisica sperimentale delle particelle elementari, nel quadro di progetti promossi e finanziati dall'INFN. I principali campi di ricerca sono stati e sono da un lato la fisica nelle collisioni  $e^+e^-$  a basse energie ( $1 \div 3$  GeV) con gli esperimenti FENICE e KLOE presso i Laboratori Nazionali di Frascati dell'INFN e dall'altro la fisica delle collisioni protone-protone con l'esperimento ATLAS a LHC al CERN di Ginevra. In parallelo ha partecipato e partecipa ad attività di ricerca e sviluppo nel campo dei rivelatori di particelle, in particolare nel settore della calorimetria elettromagnetica a fibre scintillanti, nella messa a punto e nella calibrazione di rivelatori di precisione per muoni a LHC e, recentemente, allo studio di rivelatori a gas a micro-strip.

Nel seguito sono elencati gli esperimenti e i progetti ai quali il candidato ha partecipato e sono indicati i principali contributi dati in ciascuno di essi.

- Esperimento **NADIR** (ricerca di oscillazioni libere neutrone - antineutrone presso il reattore Triga MarkII dell'Università di Pavia) 1987-1989  
Nell'ambito del lavoro di tesi di laurea si è occupato di analisi dati, sia per la ricerca di oscillazioni neutrone - antineutrone, che per lo studio delle direzioni di arrivo degli eventi "muon bundles" rivelati dall'apparato in prese dati specifiche per raggi cosmici. Il lavoro di tesi è stato dedicato a questo secondo aspetto.
- Esperimento **FENICE** (misura del fattore di forma time-like del neutrone in collisioni  $e^+e^-$  ad Adone presso i Laboratori Nazionali di Frascati) 1990-1996  
Ha partecipato alla presa dati dell'esperimento, alla calibrazione di una parte di esso e soprattutto all'analisi dei dati. Ha curato in particolare la pubblicazione della misura del decadimento della  $J/\psi$  in nucleone-antinucleone (lavoro di tesi di dottorato), e della misura dei fattori di forma time-like sia del protone che del neutrone.
- Esperimento **LEP-5** (misura di luminosità, polarizzazione e divergenza dei fasci di LEP presso il CERN di Ginevra) 1989-1995  
Ha partecipato al progetto del rivelatore di bremsstrahlung singola di LEP, al test e alla installazione a LEP. Ha contribuito alla presa dati e all'analisi dei dati.
- Esperimento **KLOE** (misure di violazione di CP nel sistema dei kaoni neutri alla  $\phi$ -factory DAΦNE presso i Laboratori Nazionali di Frascati) 1992- 2011  
Ha contribuito al progetto, al test, alla realizzazione e alla calibrazione del calorimetro a fibre scintillanti, del quale è stato a diversi livelli responsabile. È stato responsabile di diverse analisi pubblicate, in particolare nel settore della fisica dei mesoni leggeri. È stato referee interno di numerose altre analisi pubblicate.
- Esperimento **ATLAS** (misure di precisione del Modello Standard e ricerca di Nuova Fisica ad LHC, al CERN di Ginevra) 1997-

Ha partecipato ai test dei primi prototipi di camere MDT per lo spettrometro a muoni, contribuendo alla comprensione del suo funzionamento e alle definizioni delle modalità di calibrazione in-situ. Ha partecipato al test di qualità dei tubi e delle camere durante la produzione. Partecipa all'attività di calibrazione e di "Data Quality" delle camere e alla misura dell'efficienza dello spettrometro con eventi  $Z \rightarrow \mu^+ \mu^-$ . Ha partecipato in collaborazione con il gruppo di Roma1 alla prima misura completa di sezione d'urto di produzione dei bosoni vettori intermedi W e Z, e all'osservazione del bosone di Higgs nel canale  $H \rightarrow 4l$ . Dal gennaio 2012 è il responsabile del gruppo ATLAS della Sezione di Roma.

Dall'inizio del 2012 partecipa attivamente all'attività di progetto dei nuovi rivelatori che dovranno essere utilizzati per la rivelazione dei muoni in avanti nei run ad alta luminosità di ATLAS. In particolare sta partecipando allo sviluppo e alla caratterizzazione di camere Micromegas per ATLAS.

- Attività di ricerca e sviluppo sulla calorimetria, **FIB** 1991-1994 e **KLONE** 2006-2010.  
In parallelo alla realizzazione di LEP-5 e KLOE, ha partecipato ad un progetto di sviluppo di calorimetria a fibre scintillanti per l'ottimizzazione della risoluzione spaziale (FIB). Nel seguito ha partecipato allo studio dell'efficienza di calorimetri a fibre scintillanti per neutroni di bassa energia (KLONE).
- Proposta di esperimenti per la fisica  $e^+e^-$  a bassa energia: **PEP-N** 2000-2001 e **DAFNE-E** 2008-2010.  
Un progetto di esperimento per uno studio di precisione della produzione adronica in collisioni  $e^+e^-$  tra l'energia della  $\phi$  e quella della  $J/\psi$  è stato sottoposto al laboratorio SLAC prima (progetto PEP-N) e ai Laboratori Nazionali di Frascati in seguito (progetto DAFNE-E). Il candidato ha partecipato ad ambedue le proposte.

### 3 Attività Didattica.

In qualità di Ricercatore ha svolto cicli di esercitazioni per i seguenti corsi:

- Fisica Generale I e II per i corsi di laurea in Chimica e Chimica Industriale
- Esperimentazione Fisica I e II per il corso di laurea in Fisica
- Istituzioni di Fisica Nucleare e Subnucleare per il corso di laurea in Fisica

e ha avuto in affidamento i seguenti corsi:

- Fisica Generale I per il corso di laurea in Chimica
- Esperimentazione Fisica II per il corso di laurea in Fisica
- Laboratorio di Strumentazione e Misura per il corso di laurea in Fisica

In qualità di Professore Associato è stato titolare dei seguenti corsi:

- Fisica Generale I per il corso di laurea in Chimica
- Laboratorio di Strumentazione e Misura per il corso di laurea triennale in Fisica
- Laboratorio di Meccanica per il corso di laurea triennale in Fisica
- Fisica Sperimentale delle Particelle Elementari per il corso di laurea Magistrale in Fisica
- Meccanica per il corso di laurea triennale in Fisica

E' stato relatore o tutore delle seguenti tesi, dissertazioni o summer studentships:

1. Tesi di laurea quadriennale:

- A.Galli "L'esperimento KLOE per la ricerca della violazione di CP: prove e messa a punto del calorimetro elettromagnetico", 1996
- P.Silano "Studio del decadimento  $\phi \rightarrow \pi^+ \pi^- \pi^0$  nell'esperimento KLOE", 2000
- D.Leone "Studio del decadimento  $\phi \rightarrow \eta \pi^0 \gamma$  nell'esperimento KLOE", 2001
- S.Ventura "Studio del decadimento  $\phi \rightarrow f_0(980) \gamma \rightarrow \pi^+ \pi^- \gamma$  nell'esperimento KLOE" 2003

- F.Crucianelli “Studio del decadimento  $K_S \rightarrow \pi^+ \pi^- e^+ e^-$  con il rivelatore KLOE a DAΦNE, 2007
2. Dissertazioni di laurea triennale:
- V.Consorti “Studio della produzione di mesoni scalari nei decadimenti della  $\phi$  con l’esperimento KLOE”, 2006
  - V.Santini “Calibrazione delle camere di precisione per muoni nell’esperimento ATLAS”, 2006
  - G.Carta “Lo spettrometro a muoni del rivelatore ATLAS ad LHC”, 2007
  - F.R.Borgna “Tecniche di rivelazione di neutroni basate su scintillatori”, 2007
  - I.Mattei “Risultati recenti sul fattore di forma elettromagnetico del protone”, 2009
  - R.Garra “Misura dell’anomalia del momento magnetico del muone: rassegna storica e prospettive”, 2009
  - E.Della Ratta Rinaldi “Inferenza statistica nei casi di basso conteggio”, 2010
  - J.Iacovacci “Camere per muoni dell’esperimento ATLAS”, 2010
  - G.D’Imperio “Ricerca del momento di dipolo elettrico di muoni e nuclei di deuterio in anelli di accumulazione”, 2010
  - M.Cesarini “Stato delle ricerche dei pentaquark”, 2014
  - V.D’Amico “Il calorimetro elettromagnetico dell’esperimento KLOE”, 2014
  - G.Sebastiani “Le camere Micromegas per l’upgrade di ATLAS”, 2014
  - F.M.DeLuca “Analisi di piccoli segnali in presenza di fondo”, 2014
3. Tesi laurea specialistica o Magistrale:
- S.Borroni “Studio delle prestazioni delle camere MDT dell’esperimento ATLAS”, 2007
  - V.Consorti “Analisi della qualità dei dati dell’esperimento ATLAS al centro di calibrazione di Roma”, 2009
  - F.Scutti “Studio della produzione di muoni singoli, con i primi dati dell’esperimento ATLAS ad LHC.”, 2011
  - A.Calandri “Ricerca del Bosone di Higgs del Modello Standard nel canale  $H \rightarrow ZZ \rightarrow 4$  leptoni con tecniche di analisi multivariata all’esperimento ATLAS ad LHC”, 2012
  - S.Biondi “Studio delle prestazioni delle camere Micromegas per l’upgrade dello spettrometro a muoni dell’esperimento ATLAS”, 2014
  - V.Santini “Preparazione di una stazione per raggi cosmici per il test delle camere Micromegas per l’upgrade del rivelatore dell’esperimento ATLAS”, 2014
  - P.Tornambé “Ricostruzione di muoni nelle camere Micromegas per il rivelatore dell’esperimento ATLAS”, 2014
4. Tesi di dottorato di ricerca:
- S.Fiore “Search for the decay  $\phi \rightarrow K^0 \overline{K}^0$  with the KLOE detector”, 2008 (con A.Di Domenico)
  - S.Borroni “Study of the  $pp \rightarrow Z \rightarrow \mu^+ \mu^-$  process at ATLAS: detector performance and first cross-section measurement at 7 TeV”, 2010 (con S.Rosati)
  - A.Gabrielli in corso 2012-2014 (con A.Nisati)
5. Tutoraggio di Summer Students:
- D.Adams: INFN Summer Student 2000: “KLOE calorimeter calibration”.
  - B.Kylinge: INFN Summer Student 2008: “MDT ATLAS Calibration”.
  - R.Czechosky: CERN Summer Student 2013: “Analysis of Micromegas Test-beam data”.

Ha pubblicato il libro "Lezioni di Statistica per la Fisica Sperimentale" Edizioni Nuova Cultura Roma ISBN 886134295-7 che viene utilizzato come testo base dagli studenti del primo anno del corso di laurea in Fisica.

Ha scritto la nota "Complementi di Meccanica per Laboratorio" per gli studenti del corso di Laboratorio di Meccanica: [http://www.roma1.infn.it/people/bini/complementi\\_meccanica.pdf](http://www.roma1.infn.it/people/bini/complementi_meccanica.pdf)

Ha scritto la nota "Data analysis for Elementary Particle Physics" per gli studenti del corso di Fisica Sperimentale delle Particelle Elementary: <http://www.roma1.infn.it/people/bini/StatEPP.pdf>

A partire dall'autunno del 2011 svolge biennialmente un ciclo di lezioni dal titolo "Lezioni di Metodologia Sperimentale" per il percorso di eccellenza degli studenti della facoltà di Medicina della Sapienza. Il testo delle lezioni é disponibile al sito <http://www.roma1.infn.it/people/bini/LezioniMedicina.pdf>.

## 4 Incarichi e responsabilità

### 4.1 Incarichi universitari

- 2000 Membro di commissione per la procedura di valutazione comparativa ad un posto di ricercatore universitario di ruolo - settore scientifico disciplinare B01A - Fisica Generale (R/01/2000) presso l'Università degli studi di Napoli.
- 2002 Membro di commissione per la procedura di valutazione comparativa ad un posto di ricercatore universitario ruolo - settore scientifico disciplinare FIS/01 - Fisica Sperimentale (R/02/2002) presso l'Università degli studi della Calabria a Cosenza.
- 2002-2005 Membro della Giunta di Dipartimento
- 2003 Membro di commissione per la procedura di valutazione comparativa ad un posto di ricercatore universitario di ruolo - settore scientifico disciplinare FIS/01 - Fisica Sperimentale (R/03/2003) presso l'Università degli studi Federico II di Napoli .
- 2003-2010 Presidente della Commissione per la Qualificazione e Incentivazione del personale
- 2007 Membro della commissione per l'ammissione al XXIII Ciclo del Dottorato di Ricerca in Fisica, Sapienza Università di Roma
- 2009- Membro della Giunta del Consiglio di Area Didattica in Fisica
- 2012- Membro del Collegio Docenti del Dottorato di Ricerca in Fisica della Sapienza Università.
- 2013 Membro della commissione per l'ammissione al Dottorato di Ricerca in Fisica degli Acceleratori, Sapienza Università di Roma

### 4.2 Incarichi INFN

- 2003 - 2009: Responsabile dei seminari sperimentali di Sezione
- 2005 - 2006: Responsabile del gruppo di lavoro della Road-Map dell'INFN su "Fisica  $e^+e^-$  a LNF"
- 2006 - 2012: Coordinatore di Gruppo 1 della Sezione di Roma e membro della Commissione Scientifica Nazionale 1, Fisica delle Particelle.
- 2006 -: Referee dell'esperimento TOTEM

### 4.3 Responsabilità nelle attività di ricerca

- FENICE 1997 - 1998: Responsabile della stesura dei due lavori conclusivi dell'esperimento FENICE
- KLOE 1994 - 1997: Responsabile del test con raggi cosmici dei moduli del calorimetro
- KLOE 2000 - 2003: Responsabile del Working Group "Detector Calibration"
- KLOE 2001 - 2004: Responsabile del Working Group "Physics of Phi-Decays"

- KLOE 2002 - 2008: Membro dell'Executive Board
- ATLAS 2002 - 2004: Responsabile del Working Group "Studio delle proprietà di deriva dei tubi MDT", nell'ambito della collaborazione Atlas-Italia
- ATLAS 2008 - 2010 -: Responsabile della validazione del Montecarlo per HSG2
- ATLAS 2009 -: Responsabile dell'attività MDT/Calib. del gruppo ATLAS-Roma1
- ATLAS 2010 -: Membro di numerosi Editorial Board per pubblicazioni di lavori di Fisica.
- ATLAS 2011 -: MDT Calibration Expert durante la presa dati dell'esperimento ATLAS.
- ATLAS 2012 -: Responsabile del gruppo ATLAS-Roma1, membro del Collaboration Board di ATLAS, e Team Leader del gruppo ATLAS-Roma1 al CERN.
- ATLAS 2014 -: Responsabile del Working Group "MicroMegas Test beam analysis".

#### 4.4 Altri incarichi

- Membro del Local Organizing Committee delle seguenti conferenze:
  - Nucleon 1999 Workshop on the structure of the Nucleon, Frascati, 7-9 June 1999
  - Lepton-Photon 2001 XX International Symposium on Lepton and Photon Interactions at High Energies, Rome, 23-38 July 2001
  - Workshop on the prospects of  $e^+e^-$  physics at LNF, Frascati, 19-20 January 2006
  - PhiPsi 2008 International Workshop on  $e^+e^-$  collisions from  $\phi$  to  $\psi$ , Laboratori Nazionali di Frascati, 7-10 Aprile 2008
  - Discrete 2010 Symposium on Prospects in the Physics of Discrete Symmetries, Roma 6-10 Dicembre 2010
  - PhiPsi 2013 International Workshop on  $e^+e^-$  collisions from  $\phi$  to  $\psi$ , Roma 9-12 settembre 2013
- Responsabile del Local Organizing Committee dei seguenti Workshop di collaborazione ATLAS:
  - ATLAS Higgs- $\rightarrow$ ZZ HSG2 Workshop, Roma 22-26 aprile 2013
  - ATLAS Micromegas Mechanics Workshop, Roma 15-16 luglio 2013
  - ATLAS Higgs Workshop, Roma 14-18 aprile 2014
- Convener della sessione Light Quarks della conferenza QCHS 2010, Quark Confinement and Hadron Spectrum, Madrid, 30 agosto - 3 settembre 2010
- Convener della sessione Experiment dell'International Workshop ATHOS 2012, Camogli (Ge) 20-22 giugno 2012
- È stato editor (in collaborazione con G.Venanzoni) degli atti della Conferenza PhiPsi 2008 "International Workshop on  $e^+e^-$  collisions from  $\phi$  to  $\psi$ " pubblicati da Nuclear Physics B (Proc. Suppl.) 181+182 (2008) September 2008
- È stato "referee" di una proposta di esperimento per la Israel Science Foundation Marzo 2000
- Tra il 2003 ed il 2008 è stato referee per le riviste Phys.Lett. B e Journal of High Energy Physics.
- 2012- Referee "peer" per l'ANVUR.
- 2012- Referee per assegnazione di assegni di ricerca, Università di Trieste

## 5 Presentazioni orali

Nell'elenco sono inclusi tutte le presentazioni orali effettuato dal candidato divise tra presentazioni a conferenza, presentazioni a comitati scientifici, seminari su invito e seminari divulgativi. Le presentazioni fatte dal 2002 in poi sono disponibile al sito <http://www.roma1.infn.it/people/bini/talks.html>.

## 5.1 Presentazioni a conferenze

1. “Distribuzione in ascensione retta di sciami di muoni cosmici osservati al livello del mare nell’emisfero Nord” LXXV Congresso Nazionale S.I.F., Cagliari 1989;
2. “Misura veloce della luminosità a LEP con il metodo della singola bremsstrahlung” LXXVII Congresso Nazionale S.I.F., L’Aquila 1991;
3. “Nucleon Electromagnetic Form Factors in the time-like region: first results from the FENICE experiment” Scuola Invernale di Fisica Adronica, Folgaria 1992;
4. “First measurement of the neutron time-like form factors and other results from the FENICE experiment” Workshop on Diquarks II - Torino, Villa Gualino, 2-4/11 1992;
5. “Measurement of the neutron time-like Form Factors in the FENICE experiment” V Int. Symposium on Pion-Nucleon and the Structure of the Nucleon, Boulder CO (USA) 6-10/9/1993;
6. “Thermal neutron radiation damage on light yield and attenuation length of scintillating fibres” V Int. Congress of calorimetry in High Energy Physics - La Biodola Elba Settembre 1993;
7. “Performance of a scintillating fibres semiprojective electromagnetic calorimeter” IV International Conference on Advanced Detectors and Particle Physics, Como 3-7 Ottobre 1994;
8. “The Nucleon Electromagnetic Form Factors in the time-like region: new results from the Fenice experiment” Workshop on Diquarks III, Torino 28-30 Ottobre 1996;
9. “A first proposal for a new measurement of the nucleon form factors at an asymmetric  $e^+e^-$  collider” First Ankara Workshop on Linac-Ring Colliders, 9-11 Aprile 1997;
10. “The KLOE electromagnetic calorimeter” 7th Pisa Meeting on Advanced Detectors, La Biodola, Isola D’Elba 26-31 Maggio 1997;
11. “The FENICE results and a new proposal for the measurement of the nucleon time-like form-factors at an asymmetric  $e^+e^-$  collider” VII Int. Symposium on Meson-Nucleon and the structure of the Nucleon, Vancouver CA 28 Luglio - 1 Agosto 1997;
12. “A new measurement of the decay  $J/\psi \rightarrow$  nucleon-antinucleon and an estimate of the phase difference between the electromagnetic and the strong amplitude” III Intern. Conference on charm and beauty hadrons, Genova 30/6-2/7 1998;
13. “Status of the KLOE experiment” Workshop on  $e^+e^-$  annihilations from  $\phi$  to  $J/\psi$ , Novosibirsk 1/3-5/3 1999;
14. “Recent results from the KLOE experiment” Les Rencontres de Physique de la Vallée d’Aoste, sixteenth workshop on particle physics, 3-9 Marzo 2002;
15. “The KLOE Calorimeter” Workshop on Advanced Electromagnetic Calorimetry and its Applications (FEMC03) Julich 10-11 Marzo 2003;
16. “Recent Results on Light Meson Physics” XXIII Physics in Collisions Conference, Zeuthen, Germania 26-28 giugno 2003;
17. “Status of  $a_0$  and  $f_0 \rightarrow \pi^+\pi^-$  at KLOE” Euridice Workshop - Barcelona 13-15 Settembre 2004;
18. “Recent results of the KLOE experiment”, EtaMeson Network Workshop - Uppsala, Sweden, 13-14 Ottobre 2004;
19. “Study of the radiative decays of the phi mesons to the scalar mesons  $f_0$  and  $a_0$  with the KLOE detector” Hadron2005, Rio de Janeiro, 22-27 agosto 2005;
20. “Review of KLOE results on Hadron Physics” IVth International Conference on Quarks and Nuclear Physics, Madrid 5-9 Giugno 2006;
21. “Experimental Review on Light Meson Physics” VIIIth International Conference on Quark Confinement and Hadron Structure, Ponta Delgada 2-7 Settembre 2006;

22. “DAFNE2: prospettive di fisica e+e- a Frascati” Incontri di Fisica della Alte Energie 2007, Napoli 11-13 Aprile 2007;
23. “KLOE results on hadron physics” MENU2007, Julich 10-14 Settembre 2007;
24. “KLOE results on hadron physics” Hadron2007, Frascati 8-13 Ottobre 2007;
25. “KLOE results on light meson properties” ICHEP2008, Philadelphia 30 Luglio - 5 Agosto 2008;
26. “Searches for Higgs and physics beyond the Standard Model with ATLAS” ISMD2011, Hiroshima, 26-30 Settembre 2011;
27. “Study of the performance of the ATLAS muon spectrometer” IEEE Nuclear Science Symposium and Medical Imaging Conference, Valencia, 23-29 Ottobre 2011;
28. “Study of the performance of the MicroMegas chambers for the ATLAS muon spectrometer upgrade” IPRD2013, Siena, 7-10 Ottobre 2013;
29. “Properties and spectroscopy of b-hadrons with the ATLAS detector” PASCOS 2013, Taipei, Taiwan 19-26 Novembre 2013;
30. “L’esperienza NADIR e gli RPC”, Workshop in onore di Rinaldo Santonico, Roma Università di Tor Vergata, 20 febbraio 2014 ;

## 5.2 Presentazioni a comitati scientifici

1. “La Fisica di KLOE nei primi 6 mesi” Presentazione alla Commissione Nazionale I dell’INFN - Grado (Ud) Settembre 1998;
2. “Results from KLOE” Riunione del Comitato Scientifico dei Laboratori Nazionali di Frascati, 22 - 23 Maggio 2002;
3. “Fisica e+e- (non K) a LNF” riunione della CSN1 dell’INFN per la road-map 15 Novembre 2005;
4. “e+e- physics from the phi to the psi” Riunione del Comitato Scientifico dei Laboratori Nazionali di Frascati, Frascati 31 Maggio - 1 Giugno 2006
5. ”KLONE: study of the response to neutrons of a lead-scintillating fibers calorimeter”, PAC Meeting, LouvainLeNeuve (Belgio), 12/01/2007

## 5.3 Seminari su invito

1. “The KLOE Experiment at Dafne” Seminario su invito al Laboratorio di Saclay, Francia 2 Novembre 1994;
2. “Risultati finali dell’esperimento Fenice e prospettive future” Seminario su invito all’Università di Torino, 16 Gennaio 1997;
3. “Misura della fase dell’ampiezza di decadimento forte della  $J/\psi$ ” Seminario su invito ai Laboratori Nazionali di Frascati per il ciclo Incontri di Fenomenologia in area romana, 15 Febbraio 1997;
4. “Risultati finali dell’esperimento Fenice e prospettive future” Seminario presso il Dipartimento di Fisica dell’Università “La Sapienza”, 15 Maggio 1998;
5. “Primi risultati dell’esperimento KLOE” Seminario presso il Dipartimento di Fisica dell’Università “La Sapienza”, 5 luglio 2001;
6. “Scalar Meson Physics with the KLOE detector” Seminario all’Università di Roma Tre 6 Dicembre 2005;
7. “Hadron Physics with KLOE and KLOE-2” Seminario alla Johannes Gutenberg Universitaet Mainz, 13 Luglio 2009;



8. “Physics with muons at the Large Hadron Collider ” Seminario a LIP, Laboratorio de Instrumentacao e Fisica Experimental de Particulas, Lisbona, 23 Febbraio 2011;
9. ”Osservazione di una risonanza di massa 126 GeV nella ricerca del bosone di Higgs con l’esperimento ATLAS ad LHC”, Seminario presso il Dipartimento di Fisica dell’Universita’ “La Sapienza”, 10 Luglio 2012;

## 5.4 Seminari divulgativi

1. “L’Universo secondo la Fisica Moderna” Seminario divulgativo al Liceo Classico di Jesi 15 Aprile 2005;
2. “La Fisica delle Particelle Elementari” Seminario divulgativo, Liceo Scientifico di Jesi 10 Maggio 2008;
3. “Il mestiere dello scienziato’ Seminario divulgativo, Scuola Media Borsi, Roma 12 Maggio 2012;

## 6 Elenco pubblicazioni su rivista

Sono elencati in ordine cronologico tutti i lavori pubblicati su riviste internazionali referate. Sono omessi gli atti di conferenza non referati. Sono evidenziati con il simbolo  $\rightarrow$  i lavori di cui il candidato é stato “corresponding author” o principale estensore o membro dell’Editorial Board.

Il livello di citazioni delle pubblicazioni é riportato nella tabella che segue, unitamente all’indicatore bibliometrico h-index.

Table 1: Livello di citazioni e h-index delle 392 pubblicazioni (fonte Isi-Wos - 18/03/2014): sono considerati solo gli articoli su rivista, e nel calcolo delle citazioni sono escluse le ”auto-citazioni”, secondo la definizione di Isi-Wos.

Classe di numero di citazioni	Numero di lavori
> 100	11
50 ÷ 100	21
25 ÷ 50	40
< 25	320
Numero totale di citazioni	6712
h-index	40

1. **“Search for free neutron-antineutron oscillations”**  
G. Bressi *et al.*  
Z. Phys. C **43**, 175 (1989)
2.  $\rightarrow$  **“Anisotropy in the direction of cosmic muon bundles observed at sea level in the northern hemisphere”**  
G. Bressi *et al.*  
Europhys. Lett. **11**, 287 (1990)
3. **“Final Results Of A Search For Free Neutron Anti-Neutron Oscillations”**  
G. Bressi *et al.*  
Nuovo Cim. A **103**, 731 (1990)
4. **“Measurement Of Multi - Muon Events In A Flash Chamber Tracking Calorimeter At Sea Level”**  
G. Bressi *et al.*  
Nuovo Cim. C **14**, 363 (1991)
5. **“Fast measurement of luminosity at LEP by detecting the single bremsstrahlung photons”**  
C. Bini, G. De Zorzi, G. Diambri Palazzi, G. Di Cosimo, A. Di Domenico, P. Gauzzi and D. Zanello  
Nucl. Instrum. Meth. A **306**, 467 (1991)

6. **“Scattering of thermal photons by a 46-GeV positron beam at LEP”**  
C. Bini, G. De Zorzi, G. Diambri-Palazzi, G. Di Cosimo, A. Di Domenico, P. Gauzzi and D. Zanello  
Phys. Lett. B **262**, 135 (1991)
7. **“Space resolution obtained with a highly segmented SCIFI EM calorimeter”**  
G. De Zorzi *et al.*  
Nucl. Instrum. Meth. A **315**, 327 (1992)
8. **“Performance of a highly segmented SCIFI EM calorimeter”**  
A. Asmone *et al.*  
Nucl. Instrum. Meth. A **326**, 477 (1993)
9. → **“A New Measurement Of  $J/\psi \rightarrow n\bar{n}$ ”**  
A. Antonelli *et al.*  
Phys. Lett. B **301**, 317 (1993)
10. **“First measurement of the neutron electromagnetic form-factor in the timelike region”**  
A. Antonelli *et al.*  
Phys. Lett. B **313**, 283 (1993)
11. **“The FENICE detector at the  $e^+e^-$  collider ADONE”**  
A. Antonelli *et al.*  
Nucl. Instrum. Meth. A **337**, 34 (1993)
12. **“Fast Luminosity Monitor At Lep”**  
C. Bini *et al.*  
Nucl. Instrum. Meth. A **349**, 27 (1994)
13. → **“Thermal neutron radiation damage on light yield and attenuation length of scintillating fibers”**  
A. Asmone *et al.*  
Nucl. Instrum. Meth. A **338**, 398 (1994)
14. → **“Measurement of the electromagnetic form-factor of the proton in the timelike region”**  
A. Antonelli *et al.*  
Phys. Lett. B **334**, 431 (1994)
15. **“Construction and performance of the lead scintillating fiber calorimeter prototypes for the KLOE detector”**  
A. Antonelli *et al.*  
Nucl. Instrum. Meth. A **354**, 352 (1995)
16. **“Performance of a scintillating fibers semiprojective electromagnetic calorimeter”**  
M. Bertino *et al.*  
Nucl. Instrum. Meth. A **357**, 363 (1995)
17. **“Measurement of the total  $e^+e^- \rightarrow$  hadrons Cross-Section near the  $e^+e^- \rightarrow N\bar{N}$  threshold”**  
A. Antonelli *et al.* [FENICE Collaboration]  
Phys. Lett. B **365**, 427 (1996)
18. **“Measurements of light yield, attenuation length and time response of long samples of ‘blue’ scintillating fibers”**  
A. Antonelli *et al.*  
Nucl. Instrum. Meth. A **370**, 367 (1996)
19. **“Performance of fine mesh photomultiplier tubes in magnetic fields up to 0.3 T”**  
A. Antonelli *et al.*  
Nucl. Instrum. Meth. A **368**, 628 (1996)
20. **“Measuring the phase of the  $J/\psi$  strong decay amplitudes”**  
R. Baldini, C. Bini and E. Luppi  
Phys. Lett. B **404**, 362 (1997)

21. → **“The first measurement of the neutron electromagnetic form factors in the timelike region”**  
A. Antonelli *et al.*  
Nucl. Phys. B **517**, 3 (1998)
22. → **“Measurement of  $J/\psi \rightarrow N\bar{N}$  branching ratios and estimate of the phase of the strong decay amplitude”**  
R. Baldini *et al.*  
Phys. Lett. B **444**, 111 (1998)
23. **“Construction and test of a full-scale prototype of an ATLAS muon spectrometer tracking chamber”**  
A. Biscossa *et al.*  
Nucl. Instrum. Meth. A **425**, 140 (1999)
24. → **“The KLOE electromagnetic calorimeter”**  
M. Adinolfi *et al.*  
Nucl. Instrum. Meth. A **482**, 364 (2002)
25. **“The QCAL tile calorimeter of KLOE”**  
M. Adinolfi *et al.*  
Nucl. Instrum. Meth. A **483**, 649 (2002)
26. **“The tracking detector of the KLOE experiment”**  
M. Adinolfi *et al.*  
Nucl. Instrum. Meth. A **488**, 51 (2002)
27. **“The trigger system of the KLOE experiment”**  
M. Adinolfi *et al.* [KLOE Collaboration]  
Nucl. Instrum. Meth. A **492**, 134 (2002)
28. **“Measurement of the branching fraction for the decay  $K_S \rightarrow \pi e \nu$ ”**  
A. Aloisio *et al.* [KLOE Collaboration]  
Phys. Lett. B **535**, 37 (2002) [arXiv:hep-ph/0203232]
29. → **“Study of the decay  $\phi \rightarrow \eta \pi^0 \gamma$  with the KLOE detector”**  
A. Aloisio *et al.* [KLOE Collaboration]  
Phys. Lett. B **536**, 209 (2002) [arXiv:hep-ex/0204012]
30. **“Study of the decay  $\phi \rightarrow \pi^0 \pi^0 \gamma$  with the KLOE detector”**  
A. Aloisio *et al.* [KLOE Collaboration]  
Phys. Lett. B **537**, 21 (2002) [arXiv:hep-ex/0204013]
31. **“Measurement of  $\Gamma(K_S \rightarrow \pi^+ \pi^- (\gamma))/\Gamma(K_S \rightarrow \pi^0 \pi^0)$ ”**  
A. Aloisio *et al.* [KLOE Collaboration]  
Phys. Lett. B **538**, 21 (2002) [arXiv:hep-ex/0204024]
32. **“Measurement of  $\Gamma(\phi \rightarrow \eta' \gamma)/\Gamma(\phi \rightarrow \eta \gamma)$  and the pseudoscalar mixing angle”**  
A. Aloisio *et al.* [KLOE Collaboration]  
Phys. Lett. B **541**, 45 (2002) [arXiv:hep-ex/0206010]
33. → **“Study of the decay  $\phi \rightarrow \pi^+ \pi^- \pi^0$  with the KLOE detector”**  
A. Aloisio *et al.* [KLOE Collaboration]  
Phys. Lett. B **561**, 55 (2003) [Erratum-ibid. B **609**, 449 (2005)] [arXiv:hep-ex/0303016]
34. **“Measurement of the ratio  $\Gamma(K_L \rightarrow \gamma \gamma)/\Gamma(K_L \rightarrow \pi^0 \pi^0 \pi^0)$  with the KLOE detector”**  
M. Adinolfi *et al.* [KLOE Collaboration]  
Phys. Lett. B **566**, 61 (2003) [arXiv:hep-ex/0305035]
35. **“Test of the first BIL tracking chamber for the ATLAS muon spectrometer”**  
G. Avolio *et al.*  
Nucl. Instrum. Meth. A **523**, 309 (2004)

36. **“Data acquisition and monitoring for the KLOE detector”**  
A. Aloisio *et al.*  
Nucl. Instrum. Meth. A **516**, 288 (2004)
37. **“Upper limit on the  $\eta \rightarrow \gamma\gamma\gamma$  branching ratio with the KLOE detector”**  
A. Aloisio *et al.* [KLOE Collaboration]  
Phys. Lett. B **591**, 49 (2004) [arXiv:hep-ex/0402011]
38. **“Data handling, reconstruction, and simulation for the KLOE experiment”**  
F. Ambrosino *et al.*  
Nucl. Instrum. Meth. A **534**, 403 (2004) [arXiv:physics/0404100]
39. **“Measurement of  $\sigma(e^+e^- \rightarrow \pi^+\pi^-\gamma)$  and extraction of  $\sigma(e^+e^- \rightarrow \pi^+\pi^-)$  below 1-GeV with the KLOE detector”**  
A. Aloisio *et al.* [KLOE Collaboration]  
Phys. Lett. B **606**, 12 (2005) [arXiv:hep-ex/0407048]
40. **→ “Upper limit on the  $\eta \rightarrow \pi^+\pi^-$  branching ratio with the KLOE detector”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
Phys. Lett. B **606**, 276 (2005) [arXiv:hep-ex/0411030]
41. **“Measurement of the leptonic decay widths of the Phi-meson with the KLOE detector”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
Phys. Lett. B **608**, 199 (2005) [arXiv:hep-ex/0411082]
42. **“Construction of the Inner Layer Barrel Drift Chambers of the Atlas Muon Spectrometer at the Lhc”**  
P. Bagnaia *et al.*  
Nucl. Instrum. Meth. A **546**, 481 (2005)
43. **“A direct search for the CP-violating decay  $K_S \rightarrow 3\pi^0$  with the KLOE detector at DAPHNE”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
Phys. Lett. B **619**, 61 (2005) [arXiv:hep-ex/0505012]
44. **“A description of the ratio between electric and magnetic proton form factors by using space-like, time-like data and dispersion relations”**  
R. Baldini, C. Bini, P. Gauzzi, M. Mirazita, M. Negrini and S. Pacetti  
Eur. Phys. J. C **46**, 421 (2006) [arXiv:hep-ph/0507085]
45. **“Measurement of the  $K_L$  meson lifetime with the KLOE detector”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
Phys. Lett. B **626**, 15 (2005) [arXiv:hep-ex/0507088]
46. **“Measurements of the absolute branching ratios for the dominant  $K_L$  decays, the  $K_L$  lifetime, and  $V_{us}$  with the KLOE detector”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
Phys. Lett. B **632**, 43 (2006) [arXiv:hep-ex/0508027]
47. **“Measurement of the absolute branching ratio for the  $K^+ \rightarrow \mu^+\nu(\gamma)$  decay with the KLOE detector”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
Phys. Lett. B **632**, 76 (2006) [arXiv:hep-ex/0509045]
48. **→ “Study of the decay  $\phi \rightarrow f_0(980)\gamma \rightarrow \pi^+\pi^-\gamma$  with the KLOE detector”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
Phys. Lett. B **634**, 148 (2006) [arXiv:hep-ex/0511031]
49. **“Precise measurement of  $\Gamma(K_S \rightarrow \pi^+\pi^-(\gamma))/\Gamma(K_S \rightarrow \pi^0\pi^0)$  with the KLOE detector at DAFNE”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
Eur. Phys. J. C **48**, 767 (2006) [arXiv:hep-ex/0601025]

50. **“Measurement of the branching fraction and charge asymmetry for the decay  $K_S \rightarrow \pi e \nu$  with the KLOE detector”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
Phys. Lett. B **636**, 173 (2006) [arXiv:hep-ex/0601026]
51. **“Measurement of the form-factor slopes for the decay  $K_L \rightarrow \pi^+ e^- \nu$  with the KLOE detector”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
Phys. Lett. B **636**, 166 (2006) [arXiv:hep-ex/0601038]
52. **“Measurement of the branching ratio of the  $K_L \rightarrow \pi^+ \pi^-$  decay with the KLOE detector”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
Phys. Lett. B **638**, 140 (2006) [arXiv:hep-ex/0603041]
53. **→ “Prospects for  $e^+ e^-$  physics at Frascati between the  $\phi$  and the  $\psi$ ”**  
F. Ambrosino *et al.*  
Eur. Phys. J. C **50**, 729 (2007) [arXiv:hep-ex/0603056]
54. **“Measurement of the DAFNE luminosity with the KLOE detector using large angle Bhabha scattering”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
Eur. Phys. J. C **47**, 589 (2006) [arXiv:hep-ex/0604048]
55. **“First observation of quantum interference in the process  $\phi \rightarrow K_S K_L \rightarrow \pi^+ \pi^- \pi^+ \pi^-$ : A test of quantum mechanics and CPT symmetry”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
Phys. Lett. B **642**, 315 (2006) [arXiv:hep-ex/0607027]
56. **“Dalitz plot analysis of  $e^+ e^- \rightarrow \pi^0 \pi^0 \gamma$  events at  $\sqrt{s} \sim M(\phi)$  with the KLOE detector”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
Eur. Phys. J. C **49**, 473 (2007) [arXiv:hep-ex/0609009]
57. **“Determination of CP and CPT violation parameters in the neutral kaon system using the Bell-Steinberger relation and data from the KLOE experiment”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
JHEP **0612**, 011 (2006) [arXiv:hep-ex/0610034]
58. **“Measurement of the pseudoscalar mixing angle and eta’ gluonium content with KLOE detector”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
Phys. Lett. B **648**, 267 (2007) [arXiv:hep-ex/0612029]
59. **“A Study of the Radiative Ke3 Decay and Search for Direct Photon Emission with the KLOE Detector”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
Eur. Phys. J. C **55**, 539 (2008) [arXiv:0710.3993 [hep-ex]]
60. **“Measurement of the  $K_L \rightarrow \pi \mu \nu$  form factor parameters with the KLOE detector”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
JHEP **0712**, 105 (2007) [arXiv:0710.4470 [hep-ex]]
61. **“Precise measurements of the eta and the neutral kaon meson masses with the KLOE detector”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
JHEP **0712**, 073 (2007) [arXiv:0710.5892 [hep-ex]]
62. **“Measurement of the charged kaon lifetime with the KLOE detector”**  
F. Ambrosino *et al.* [The KLOE Collaboration]  
JHEP **0801**, 073 (2008) [arXiv:0712.1112 [hep-ex]]
63. **“The ATLAS Experiment at the CERN Large Hadron Collider”**  
G. Aad *et al.* [ATLAS Collaboration].  
JINST **3**, S08003 (2008).

64. **“Measurement of the  $K_S \rightarrow \gamma\gamma$  branching ratio using a pure KS beam with the KLOE detector”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
JHEP **0805**, 051 (2008) [arXiv:0712.1744 [hep-ex]]
65. **“Measurement of the absolute branching ratios for semileptonic  $K^\pm$  decays with the KLOE detector”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
JHEP **0802**, 098 (2008) [arXiv:0712.3841 [hep-ex]]
66. **“Determination of  $\eta \rightarrow \pi^+\pi^-\pi^0$  Dalitz plot slopes and asymmetries with the KLOE detector”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
JHEP **0805**, 006 (2008) [arXiv:0801.2642 [hep-ex]]
67. **“ $V_{us}$  and lepton universality from kaon decays with the KLOE detector”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
JHEP **0804**, 059 (2008) [arXiv:0802.3009 [hep-ex]]
68. **“Measurement of the absolute branching ratio of the  $K^+ \rightarrow \pi^+\pi^0(\gamma)$  decay with the KLOE detector”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
Phys. Lett. B **666**, 305 (2008) [arXiv:0804.4577 [hep-ex]]
69. **“Study of the ATLAS MDT spectrometer using high energy CERN combined test beam data”**  
C. Adorisio *et al.*  
Nucl. Instrum. Meth. A **598**, 400 (2009)
70. **“Study of the process  $e^+e^- \rightarrow \omega\pi^0$  in the  $\phi$ -meson mass region with the KLOE detector”**  
F. Ambrosino *et al.* [KLOE collaboration]  
Phys. Lett. B **669**, 223 (2008) [arXiv:0807.4909 [hep-ex]]
71. **“Measurement of  $\sigma(e^+e^- \rightarrow \pi^+\pi^-\gamma(\gamma))$  and the dipion contribution to the muon anomaly with the KLOE detector”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
Phys. Lett. B **670**, 285 (2009) [arXiv:0809.3950 [hep-ex]]
72. **“Search for the  $K_S \rightarrow e^+e^-$  decay with the KLOE detector”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
Phys. Lett. B **672**, 203 (2009) [arXiv:0811.1007 [hep-ex]]
73. **“Measurement of the branching ratio and search for a CP violating asymmetry in the  $\eta \rightarrow \pi^+\pi^-e^+e^-(\gamma)$  decay at KLOE”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
Phys. Lett. B **675**, 283 (2009) [arXiv:0812.4830 [hep-ex]]
74. **“Expected Performance of the ATLAS Experiment - Detector, Trigger and Physics”**  
G. Aad *et al.* [ATLAS Collaboration].  
arXiv:0901.0512 [hep-ex]
75. **“Precise measurement of  $B(K \rightarrow e\nu(\gamma))/B(K \rightarrow \mu\nu(\gamma))$  and study of  $K \rightarrow e\nu\gamma$ ”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
Eur. Phys. J. C **64**, 627 (2009) [Erratum-ibid. **65**, 703 (2010)] [arXiv:0907.3594 [hep-ex]]
76. **“Search for the decay  $\phi \rightarrow K^0\bar{K}^0\gamma$  with the KLOE experiment”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
Phys. Lett. B **679**, 10 (2009) [arXiv:0903.4115 [hep-ex]]
77. **“Study of the  $a_0(980)$  meson via the radiative decay  $\phi \rightarrow \eta\pi^0\gamma$  with the KLOE detector”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
Phys. Lett. B **681**, 5 (2009) [arXiv:0904.2539 [hep-ex]]

78. **“A global fit to determine the pseudoscalar mixing angle and the gluonium content of the eta’ meson”**  
F. Ambrosino *et al.*  
JHEP **0907**, 105 (2009) [arXiv:0906.3819 [hep-ph]]
79. **“Readiness of the ATLAS Liquid Argon Calorimeter for LHC Collisions”**  
G. Aad *et al.* [ATLAS Collaboration]  
Eur. Phys. J. C **70**, 723 (2010) [arXiv:0912.2642 [physics.ins-det]]
80. **“Drift Time Measurement in the ATLAS Liquid Argon Electromagnetic Calorimeter using Cosmic Muons”**  
G. Aad *et al.* [ATLAS Collaboration]  
Eur. Phys. J. C **70**, 755 (2010) [arXiv:1002.4189 [physics.ins-det]]
81. **“The ATLAS Inner Detector commissioning and calibration”**  
P. Ryan *et al.* [ATLAS Collaboration]  
Eur. Phys. J. C **70**, 787 (2010) [arXiv:1004.5293 [physics.ins-det]]
82. **“Charged-particle multiplicities in pp interactions at sqrt(s) = 900 GeV measured with the ATLAS detector at the LHC”**  
G. Aad *et al.* [ATLAS Collaboration]  
Phys. Lett. B **688**, 21 (2010) [arXiv:1003.3124 [hep-ex]]
83. **“Physics with the KLOE-2 experiment at the upgraded DAφNE”**  
G. Amelino-Camelia *et al.*  
Eur. Phys. J. C **68**, 619 (2010) [arXiv:1003.3868 [hep-ex]]
84. **“Measurement of the  $\eta \rightarrow 3\pi^0$  slope parameter  $\alpha$  with the KLOE detector”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
Phys. Lett. B **694**, 16 (2010) [arXiv:1004.1319 [hep-ex]]
85. **“Performance of the ATLAS Detector using First Collision Data”**  
G. Aad *et al.* [Atlas Collaboration]  
JHEP **1009**, 056 (2010) [arXiv:1005.5254 [hep-ex]]
86. **“The ATLAS Simulation Infrastructure”**  
G. Aad *et al.* [ATLAS Collaboration]  
Eur. Phys. J. C **70**, 823 (2010) [arXiv:1005.4568 [physics.ins-det]]
87. **“Commissioning of the ATLAS Muon Spectrometer with Cosmic Rays”**  
G. Aad *et al.* [ATLAS Collaboration]  
Eur. Phys. J. C **70**, 875 (2010) [arXiv:1006.4384 [physics.ins-det]]
88. **“Charged-particle multiplicities in pp interactions at sqrt(s) = 900 GeV measured with the ATLAS detector at the LHC”**  
G. Aad *et al.* [ATLAS Collaboration]  
Phys. Lett. B **688**, 21 (2010) [arXiv:1003.3124 [hep-ex]]
89. **“Physics with the KLOE-2 experiment at the upgraded DAφNE”**  
G. Amelino-Camelia *et al.*  
Eur. Phys. J. C **68**, 619 (2010) [arXiv:1003.3868 [hep-ex]]
90. **“Measurement of the  $\eta \rightarrow 3\pi^0$  slope parameter  $\alpha$  with the KLOE detector”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
Phys. Lett. B **694**, 16 (2010) [arXiv:1004.1319 [hep-ex]]
91. **Measurement of the neutron detection efficiency of a 80% absorber - 20% scintillating fibers calorimeter**  
M. Anelli *et al.*  
arXiv:1004.2241 [physics.ins-det]  
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92. **“Performance of the ATLAS Detector using First Collision Data”**  
G. Aad *et al.* [Atlas Collaboration]  
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93. **“Measurement of  $\sigma(e^+ e^- \rightarrow \pi^+ \pi^-)$  from threshold to 0.85 GeV<sup>2</sup> using Initial State Radiation with the KLOE detector”**  
F. Ambrosino *et al.* [KLOE Collaboration]  
Phys. Lett. B **700**, 102 (2011) [arXiv:1006.5313 [hep-ex]]
94. **“Proposal for taking data with the KLOE-2 detector at the DAΦNE collider upgraded in energy”**  
D. Babusci *et al.*  
arXiv:1007.5219 [hep-ex]  
LNF-10-17-P(2010)
95. **“Readiness of the ATLAS Tile Calorimeter for LHC collisions”**  
G. Aad *et al.* [ATLAS Collaboration]  
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96. **“Search for New Particles in Two-Jet Final States in 7 TeV Proton-Proton Collisions with the ATLAS Detector at the LHC”**  
G. Aad *et al.* [ATLAS Collaboration]  
Phys. Rev. Lett. **105**, 161801 (2010) [arXiv:1008.2461 [hep-ex]]
97. **“Search for Quark Contact Interactions in Dijet Angular Distributions in pp Collisions at  $\sqrt{s} = 7$  TeV Measured with the ATLAS Detector”**  
G. Aad *et al.* [ATLAS Collaboration]  
Phys. Lett. B **694**, 327 (2011) [arXiv:1009.5069 [hep-ex]]
98. **“Measurement of inclusive jet and dijet cross sections in proton-proton collisions at 7 TeV centre-of-mass energy with the ATLAS detector”**  
G. Aad *et al.* [Atlas Collaboration]  
Eur. Phys. J. C **71**, 1512 (2011) [arXiv:1009.5908 [hep-ex]]
99. **“Measurement of the  $W \rightarrow \ell \nu$  and  $Z/\gamma^* \rightarrow \ell \ell$  production cross sections in proton-proton collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector”**  
G. Aad *et al.* [Atlas Collaboration]  
JHEP **1012**, 060 (2010) [arXiv:1010.2130 [hep-ex]]
100. **“Precision Measurement of KS Meson Lifetime with the KLOE detector”**  
F. Ambrosino *et al.*  
Eur. Phys. J. C **71**, 1604 (2011) [arXiv:1011.2668 [hep-ex]]
101. **“Observation of a Centrality-Dependent Dijet Asymmetry in Lead-Lead Collisions at  $\sqrt{s}(NN) = 2.76$  TeV with the ATLAS Detector at the LHC”**  
G. Aad *et al.* [Atlas Collaboration]  
Phys. Rev. Lett. **105**, 252303 (2010) [arXiv:1011.6182 [hep-ex]]
102. **“Studies of the performance of the ATLAS detector using cosmic-ray muons”**  
G. Aad *et al.* [The ATLAS Collaboration]  
Eur. Phys. J. C **71**, 1593 (2011) [arXiv:1011.6665 [physics.ins-det]]
103. **“Measurement of underlying event characteristics using charged particles in pp collisions at  $\sqrt{s} = 900$  GeV and 7 TeV with the ATLAS detector”**  
G. Aad *et al.* [Atlas Collaboration]  
Phys. Rev. D **83**, 112001 (2011) [arXiv:1012.0791 [hep-ex]]
104. **“Measurement of the top quark-pair production cross section with ATLAS in pp collisions at  $\sqrt{s} = 7$  TeV”**  
G. Aad *et al.* [Atlas Collaboration]  
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105. **“Search for Diphoton Events with Large Missing Transverse Energy in 7 TeV Proton-Proton Collisions with the ATLAS Detector”**  
G. Aad *et al.* [ATLAS Collaboration]  
Phys. Rev. Lett. **106**, 121803 (2011) [arXiv:1012.4272 [hep-ex]]
106. **“Measurement of the inclusive isolated prompt photon cross section in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector”**  
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