

Working group 3: Numerics

Possible questions to be addressed:

- i) Numerical methods for solving the 2-body relativistic bound states ?
Comparison when possible
- ii) Numerical methods for solving the 2-body relativistic scattering states ?
PW versus total amplitude calculations.
- iii) Comparison between the solution of the same lagrangian model -
e.g. Wick-Cutkowsky for scalars or Yukawa for fermion- using the different
relativistic approaches: Bethe-Salpeter, Gross, Light-Front
- iv) Which of the numerical methods are extensible to relativistic $N=3,4,\dots$ problems
- v) Lattice techniques

more precisely ...

1. Charlotte: advantages and drawbacks of “total wf ” N=2 scattering solution
How to fit V parameters?
2. H. Krebs: methods on Lattice
3. P. Maris: Methods for solving in N=3 BS and LF
4. Ch. Forseen: are NCSM able to deal with relativistic equations?
5. Rocco: what about GFMC and relativity?
6. H. Witala: perspective in N=4 Faddeev ?

To do list

1. BS scattering solutions in Minkowski, only ?
2. $M(g^2)$ for simplest models (WC, Yukawa): list!!!!
- 3.

