



Contribution ID: 84

Type: **not specified**

## Numerical study of the baryon spectrum and chiral symmetry restoration

*Thursday, 10 March 2016 09:30 (30 minutes)*

We study light baryons using a simple relativistic but non covariant Coulomb Gauge QCD inspired model. A variational basis is employed to compute the energies and wavefunctions of the baryon states, for different values of angular momentum and parity. Results are obtained for both the Nucleon and the Delta sectors. A special look is given to the high angular momentum states going up to  $J = 13/2$ . In this limit, we test the effect of chiral symmetry restoration on the baryonic spectrum.

**Primary author:** CARDOSO, Marco (Instituto Superior Técnico)

**Co-authors:** LLANES-ESTRADA, Felipe J. (Universidad Complutense de Madrid); BICUDO, Pedro (IST Lisboa)

**Presenter:** CARDOSO, Marco (Instituto Superior Técnico)

**Session Classification:** Thursday Morning