



Contribution ID: 22

Type: **not specified**

Heavy baryons in the chiral quark-soliton model: a possibility for exotica?

Tuesday 13 March 2018 09:00 (30 minutes)

Models based on chiral symmetry predict the baryonic states with exotic quantum numbers (pentaquarks) that have relatively low masses and small widths. We shall briefly review both theoretical and experimental status of a possibility of exotica in the light sector. Next we shall show how to extend chiral models to baryons with one heavy quark and show that one may expect exotic states also in this case. Finally we shall try to interpret recently discovered by the LHCb collaboration five Ω_c^{*} resonances in terms of regular and exotic excitations of the ground state Ω_c .

Author: PRASZALOWICZ, Michal (Jagiellonian University, Krakow)

Presenter: PRASZALOWICZ, Michal (Jagiellonian University, Krakow)

Session Classification: Talks - Tue, Morning, 1st session