



Contribution ID: 28

Type: **not specified**

Octet baryon sigma terms and Baryon ChPT

Tuesday, 15 June 2010 18:00 (5 minutes)

A status report is given for a joint project between the Budapest-Marseille-Wuppertal collaboration and the Regensburg group to study the quark mass-dependence of octet baryons in SU(3) Baryon ChPT. This formulation is expected to extend to larger masses than Heavy-Baryon ChPT. Its applicability will be tested with 2+1 flavor data which cover three lattice spacings and pion masses down to about 190 MeV, in large volumes. Its use for the determination of octet baryon sigma terms will be discussed.

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poster

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Session Classification: Poster session

Track Classification: Hadron spectroscopy