Contribution ID: **1022** Type: **Parallel Session Talk**

Hadron Spectroscopy at COMPASS

Friday, 23 July 2010 12:00 (13 minutes)

The COMPASS experiment focused its physics program on hadron spectroscopy in the last two years. As a fixed target experiment at the CERN SPS accelerator, COMPASS features large acceptance and high momentum resolution and thus qualifies well for studies of diffractive dissociation and central production. Hadron formation with both 190 GeV pi-/K- amd 190 GeV p/pi+ beams on liquid hydrogen, copper and nickel was observed through the years 2004, 2008 and 2009 to search for exotic mesons and glueballs. We present an overview of the spectroscopy program which includes studies of diffractively produced 3 and 5 charged pionic final states, studies of neutral modes, kaonic final states and first results from central production analyses.

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Session Classification: 04 - Hadronic Structure, Parton Distributions, soft QCD, Spectroscopy

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