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Recent results on hadron spectroscopy at COMPASS

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COMPASS is a multi-purpose fixed target experiment at CERN's Super Proton Synchrotron, dedicated to the study of the structure of the nucleon and the spectroscopy of hadrons. The large acceptance and high resolution two stage spectrometer takes advantage of the availability of a variety of high intensity beams (muons and hadrons) with momenta up to 300 GeV/c. During two weeks in 2004 and the years 2008 to 2009, COMPASS has focused on the search for exotic hadronic states in central production and diffractive projectile excitation. 190 GeV hadron beams (mainly p and π^-) were used on different target materials (LH2, Ni and Pb). Mesonic resonances with masses up to about 2.5 GeV/c² are accessible in these production mechanisms at COMPASS. An overview on the results obtained from PWA and the status of the ongoing analysis will be given.

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