Contribution ID: **74** Type: **not specified**

Review of pi-pi scattering measurements in K decays

Wednesday, 23 May 2007 09:30 (30 minutes)

Over the last few years it has become possible to study low energy ππ scattering in K decays to three pions, thanks to the high statistics measurement of K±⟶ π±π°π° decay with excellent π°π° invariant mass resolution performed by the NA48/2 experiment at the CERN SPS. The information on the ππ scattering lengths which can be extracted from these results is reviewed and compared with the results from studies of Ke4 decays, which include recent NA48/2 measurements. The possibility of studying ππ scattering in K±⟶ π±π+π− and KL⟶ π°π°π° decays is also discussed.

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Session Classification: Session III

Track Classification: Low energy QCD