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Recent results from NA48/2 on Ke4 decays and interpretation in term of pi-pi scattering lengths

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The NA48/2 experiment at the CERN SPS has collected about $10^{**}6$ K± decays

into pi+ pi- $e\pm v$ (Ke4) in 2003 and 2004. The analysis of a partial sample of

~500000 such events allows a precise measurement of the decay parameters

The form factors of the reaction and their dependence with dipion and dilepton

masses have been measured. Thanks to a sizeable acceptance at large Mpipi $\,$

and the very good resolution of the NA48 detector, a high sensitivity to the

pi-pi scattering lengths a00 and a02 is achieved. These almost model independent measurements can be confronted with the predictions from different calculations, in particular within the framework of Chiral Perturbation

Theory.

Autore principale: Sig.ra BLOCH-DEVAUX, Brigitte (DAPNIA/SPP CEA-SACLAY (FRANCE))

Relatore: Sig.ra BLOCH-DEVAUX, Brigitte (DAPNIA/SPP CEA-SACLAY (FRANCE))

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