
Precision study of charged kaon decays to three pions by the NA48/2 experiment at CERN.

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The NA48/2 experiment at the CERN SPS has collected an unprecedented sample of 3-pion decays of charged kaons. The high statistics and the precise control over the systematic effects allowed a unique investigation of the detailed phase space distributions of these decays. Improved upper limits on CP violation effects have been obtained by comparison of decays of positive and negative kaons. Effects of final state pion rescattering observed for the first time in the Dalitz plot distribution turned out to be a powerful tool for extraction of the S-wave pion-pion scattering lengths.

Lundi 4 juin 2007 à 15 heures

Salle André Berthelot, bât. 141

Le café sera servi 15 minutes avant

NB : La présentation d'une carte d'identité ou d'un passeport est exigée à l'entrée du centre. Tous les auditeurs extérieurs sont priés de prévenir à l'avance de leur visite Emilie Chancrin, tél. 01 69 08 23 50 (U.E. : délai de 24 h, hors U.E. : délai de 4 jours).