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Observation of resonances in the Lb->Lc+ pi- pi+ pi- decay mode at CDF II

Tuesday 18 August 2009 14:00 (1 minute)

Please give a brief summary of your poster

CDF II has reconstructed a signal of about 900 Lb->Lc+ pi-pi+pi- decays from a data sample of 2.4 fb-1 of ppbar collisions at sqrt(s)~2TeV collected with the displaced vertex trigger. Several resonant decay modes have been observed for the first time, including
Lb->Lc(2595)+[Lc pi+pi-]pi-,
Lb->Lc(2625)+[Lc pi+pi-]pi-,
Lb->Sigma(2455)++[Lc pi+]pi-pi-,
and Lb->Sigma(2455)0[Lcpi-]pi+pi-.
We present the Lb->Lc+ pi-pi+pi- signal extraction and the preliminary measurement of the relative branching fractions of the above resonant Lb decay modes.

Primary author: Dr DONATI, Simone (University Pisa)

Co-authors: Dr VATAGA, Elena (INFN - Pisa); Dr CIOCCI, Maria Agnese (University of Siena); Dr AZZURRI, Paolo (SNS - Pisa); Dr BARRIA, Patrizia (University of Siena)

Presenter: Dr DONATI, Simone (University Pisa)

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