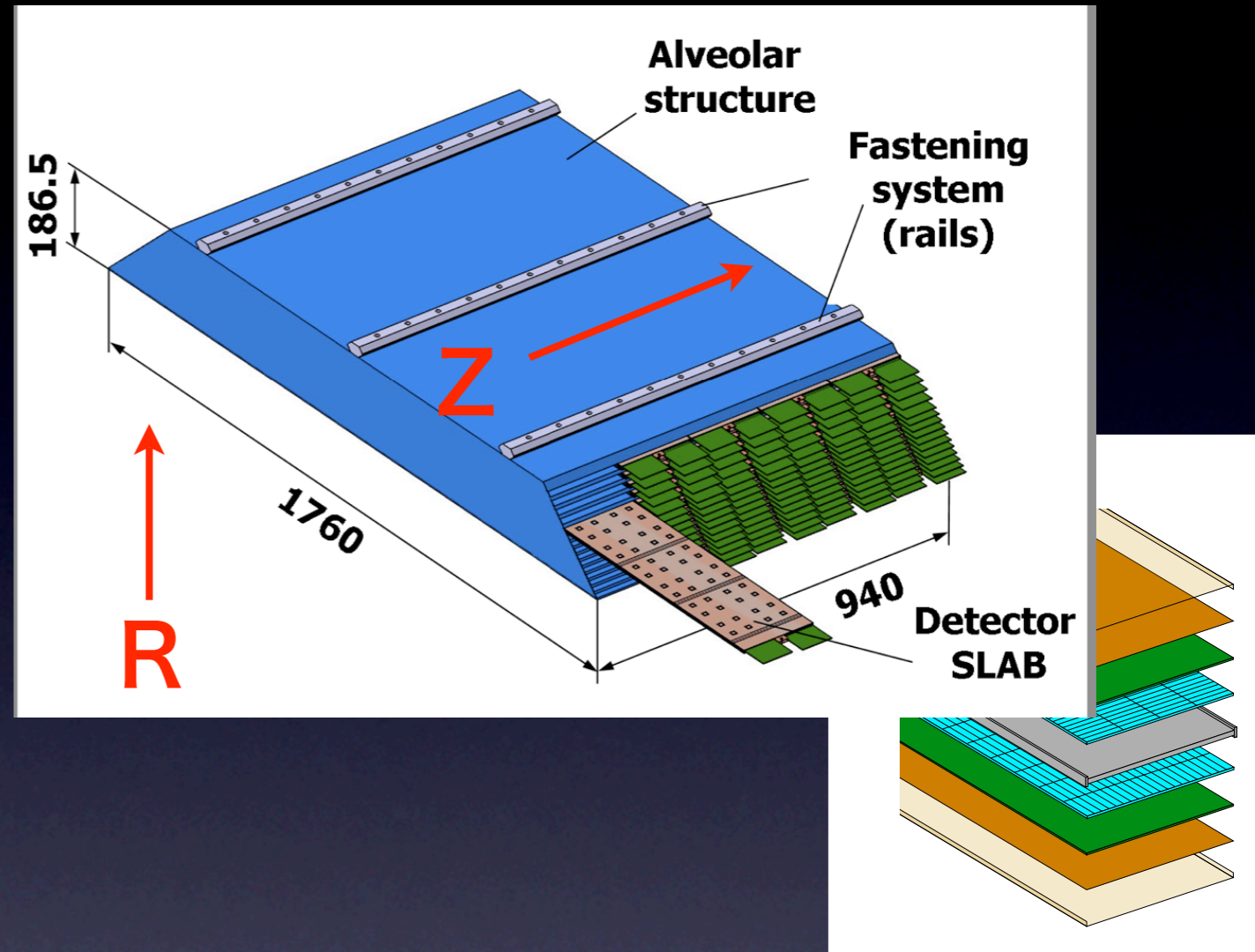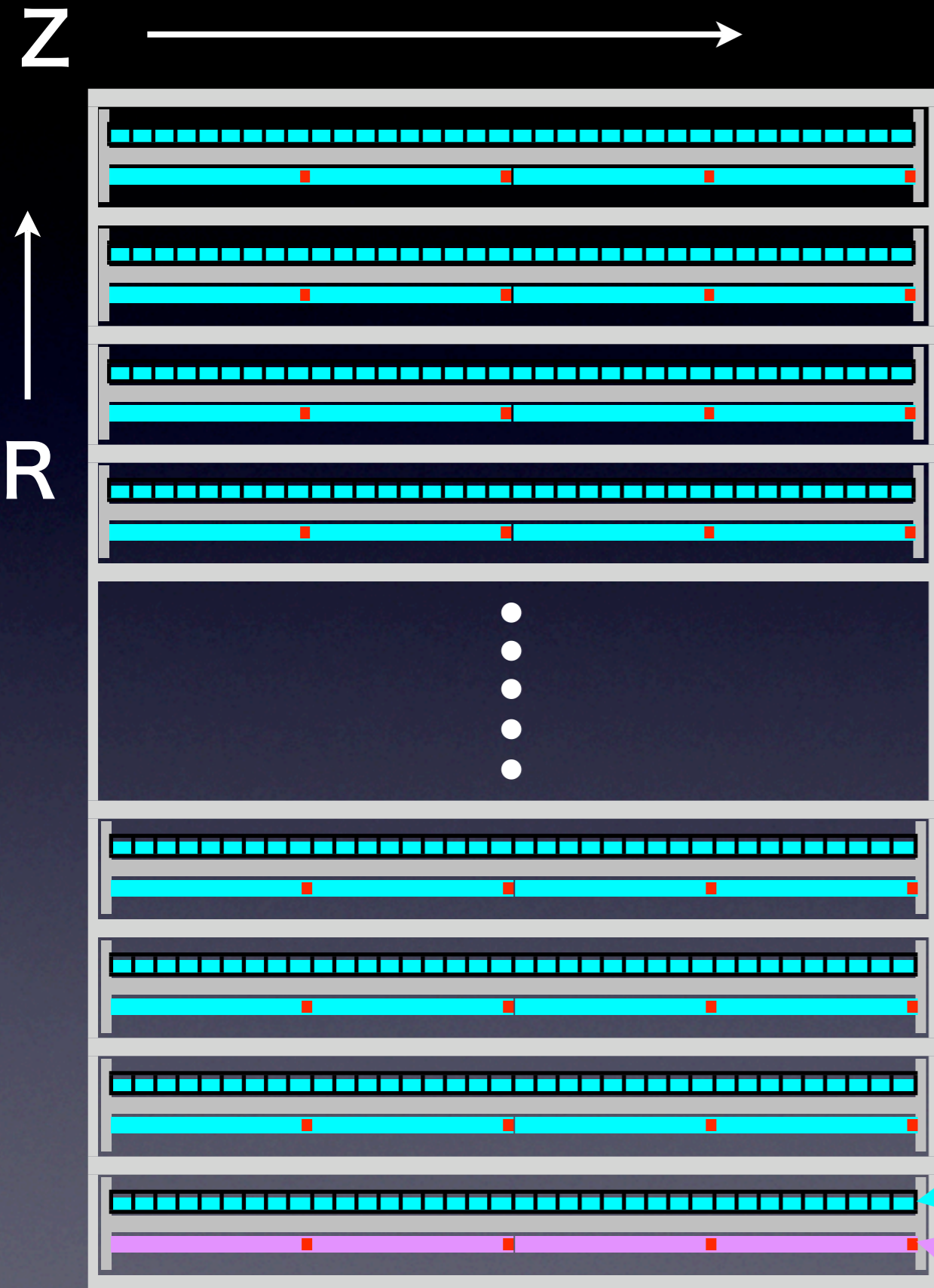# Strip-ScECAL reconstruction

25th Nov. 2011 Physics Software

meeting of ILD Asia

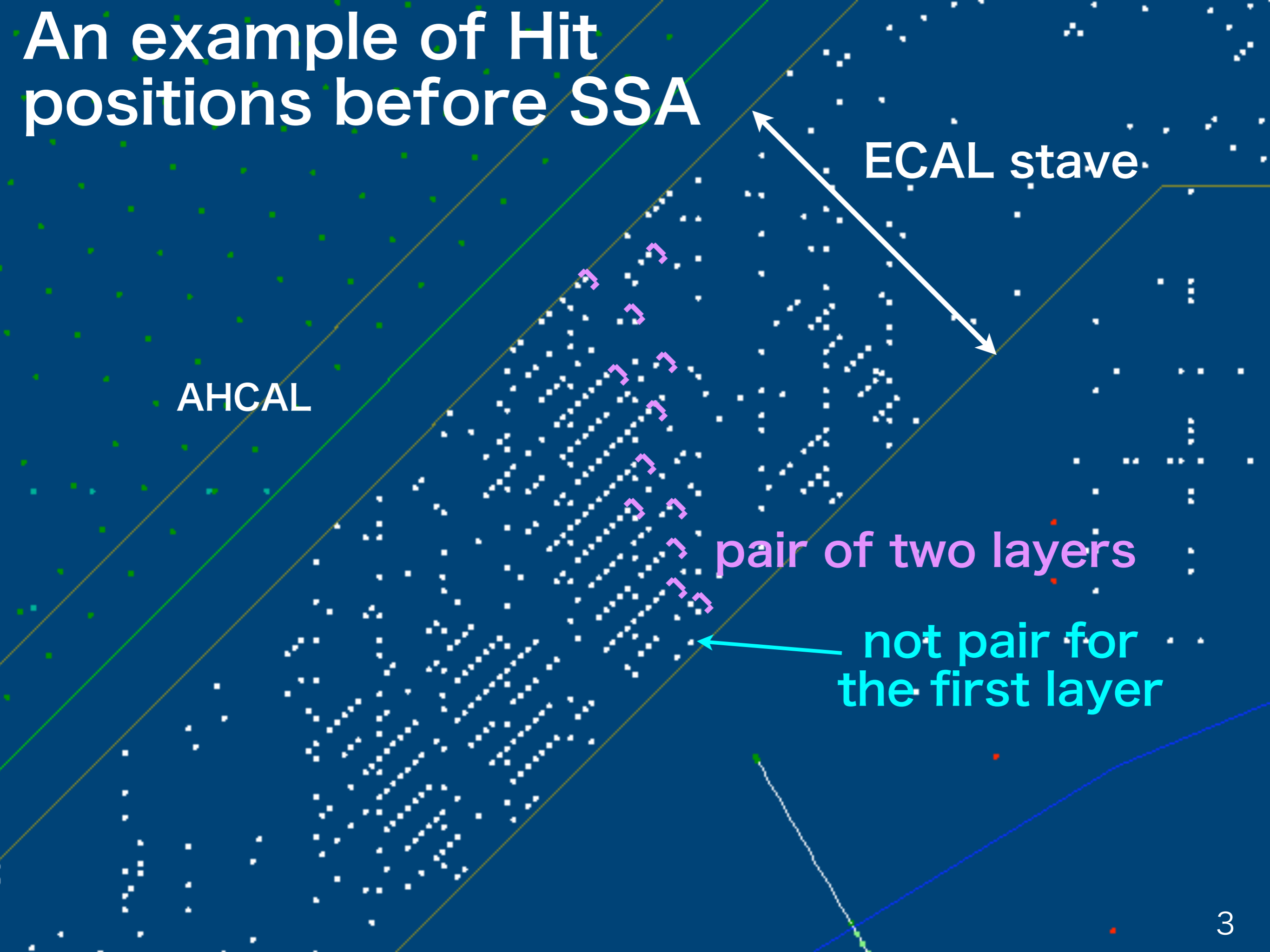Shinshu university k. kotera

In an alveolar

Z →

R ↑

Daniel gave me information that the first layer is also paired with the next one, but the collection name for the first layer is different than others.

EcalBarreScintillatorTransverseStrip

EcalBarreScintillatorLongtudinal -StripsPreShowerCollection

An example of Hit positions before SSA

ECAL stave

AHCAL

pair of two layers

not pair for the first layer

Bug in ?

I found how to read PreShower Collection by MarlinReco. However, ...

collection name : EcalBarrelScintillatorLongitudinalStripsPreShowerCollection
parameters:

This should be real first layer

[00000188] | 00308b23 | 00000000 | 3.426e-04 | (5.224e+02,-1.848e+03,3.854e+01)| 1
    id-fields: (M:3,S-1:4,I:44,J:97,K-1:0)
      -> -13: 0.000342596 | 6.42 | no PDG

Similar cell ID, especially the same layer number for different position

collection name : EcalBarrelScintillatorTransverseStrips
parameters:

This should be started from 2nd layer

[id] | cellId0 | cellId1 | energy | position (x,y,z) | nMCParticles
    -> MC contribution: prim. PDG | energy | time | sec. PDG

[00000189] | 00308b23 | 00000000 | 2.948e-04 | (5.224e+02,-1.853e+03,3.860e+01)| 1
    id-fields: (M:3,S-1:4,I:44,J:97,K-1:0)
      -> -13: 0.000294848 | 6.43834 | no PDG
[0000018a] | 02308a63 | 00000000 | 3.119e-04 | (5.235e+02,-1.867e+03,3.860e+01)| 1
    id-fields: (M:3,S-1:4,I:41,J:97,K-1:2)
      -> -13: 0.000311884 | 6.48689 | no PDG
[0000018b] | 04308963 | 00000000 | 7.613e-04 | (5.298e+02,-1.882e+03,3.860e+01)| 1
    id-fields: (M:3,S-1:4,I:37,J:97,K-1:4)
      -> -13: 0.000761334 | 6.53545 | no PDG