



Dark matter search in higgs portal scenario

Tohoku
Takahiro Honda
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status

- Higgs-dark matter coupling has been checked by dark matter mass
 - Add new point 58GeV

Simulation setup

Higgs mass : 120GeV

Dark matter type : scalar, fermion, vector

Dark matter mass :

10, 20, 30, 40, 50, **58**, 59, 61, 80, 90, 100GeV

Center mass energy : 300GeV

Beam polarization :

electron: +80% positron: -30%

Integrated luminosity : 2ab^{-1}

ILC upper limit

Compare ILC upper limit and wmap constraint

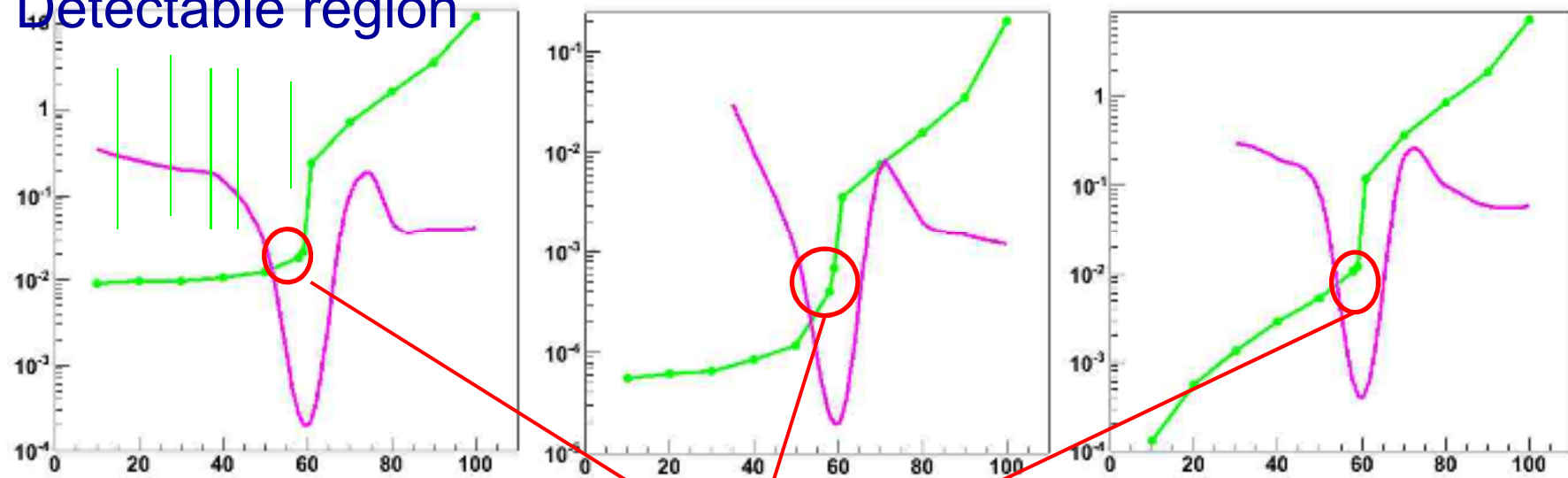
Green line : ilc upper limit

scalar

fermion

vector

Detectable region



Additional points

summary

- The points 58GeV were checked. So far, my analysis is all.
- Make slide for nennkai