

LLP 用 CEPC 近端探测器(ND)和远端探测器(FD)的相关研究

<https://arxiv.org/pdf/1904.10661>

Long-lived light neutralinos at future Z factories

ND, $Z \rightarrow LLP + LLP$ @ 91.2 GeV

<https://arxiv.org/pdf/1911.06576>

Physics with far detectors at future lepton colliders

ND+FD, 3 种 LLPs, FD 空间独立, 8 种不同 FD 方案, ND 和 FD 结果的定量比较

$H \rightarrow LLP + LLP$ @ 240 GeV

$Z \rightarrow \nu + LLP$ @ 91.2 GeV

$Z \rightarrow LLP + LLP$ @ 91.2 GeV

<https://arxiv.org/pdf/2201.08960>

Search for long-lived axions with far detectors at future lepton colliders

FD, $e^- e^+ \rightarrow \gamma + LLP$ @ 91.2 GeV

<https://arxiv.org/pdf/2406.05770>

LAYCAST: LAYered CAvern Surface Tracker at future electron-positron colliders

ND+FD, new inner surface design, 4 种 LLPs, ND—空间独立 FD—surface FD 间的比较, 本底的影响

$H \rightarrow LLP + LLP$ @ 240 GeV

$Z \rightarrow \nu + LLP$ @ 91.2 GeV

$Z \rightarrow LLP + LLP$ @ 91.2 GeV

$e^- e^+ \rightarrow \gamma + LLP$ @ 91.2 GeV