Detectable LLP event

Flavor violating model

μ

LLP

e

e

μ

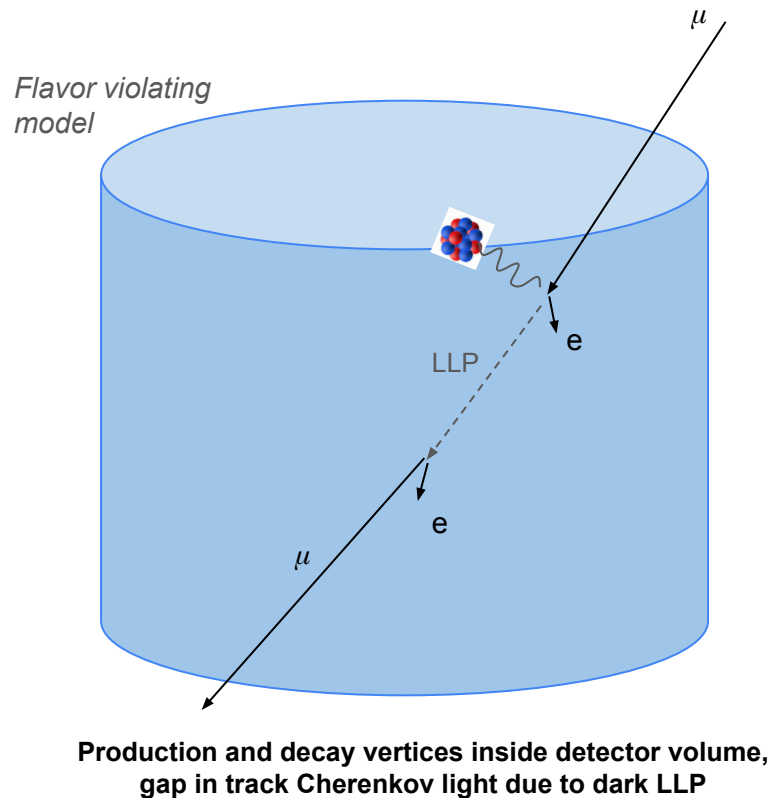**Production and decay vertices inside detector volume, gap in track Cherenkov light due to dark LLP**

Estimate rate with segmented thin target approximation with decay factor

μ

Available decay length

Margins

Chop up track -> Sum probability of LLP production + decay in the detector at each point