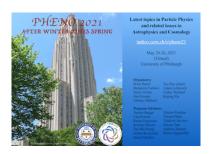
## Phenomenology 2021 Symposium



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## GAZELLE - a long-lived particle detector for Belle II?

Monday 24 May 2021 15:45 (15 minutes)

Many BSM models predict long-lived particles (LLPs) which are generally difficult to detect at existing colliders. We have explored the potential of a future far detector at Belle II, named GAZELLE. For that, we have investigated three models that predict LLPs with different production mechanisms. In this talk, I will compare the projections of finding these LLPs at Belle II or GAZELLE. Due to Belle II's excellent sensitivity to LLPs, we find little extra gain in building a far detector like GAZELLE.

## **Summary**

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