ILC Workshop on Potential Experiments (ILCX2021)



Contribution ID: 33

Type: Oral presentation using Zoom

Diversified use of ILC: A possibility of hadron photoproduction experiments at a beam dump

Wednesday, 27 October 2021 15:30 (24 minutes)

The ILC provides an extremely high energy electron beam with an excellent beam divergence. Thus, a linearly polarized photon beam of about 75 GeV can be produced by coherent bremsstrahlung using a thin diamond radiator. Thanks to the electron beam polarization, it is also possible to generate a circularly polarized photon beam. Such a very high energy photon beam would be useful to produce exotic hadrons with charm or bottom quarks and to investigate their natures through polarization observables. This talk will present a possibility of hadron photoproduction experiments at a beam dump as a diversified use of ILC.

1st preferred time slot for your oral presentation

13:00-15:00 JST (6:00-8:00 CEST, 0:00-2:00 EDT, 21:00-23:00 PDT)

2nd preferred time slot for your oral presentation

10:00-12:00 JST (3:00-5:00 CEST, 21:00-23:00 EDT, 18:00-20:00 PDT)

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Session Classification: S: ILC application (to physics, material science, etc.)

Track Classification: Parallel sessions: Accelerators: Session S: ILC application (to physics, material

science, etc.)