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Modeling SuperKEKB backgrounds with the Belle II electromagnetic calorimeter

Monday, 8 May 2023 16:30 (2 hours)

The largest current obstacle to SuperKEKB's luminosity goals is currently beam-related backgrounds occurring during accelerator operation. Thus, understanding the level of these backgrounds is of crucial importance for the future of the facility. In this work, we take advantage of the Belle II Electromagnetic Calorimeter's near-total coverage of the interaction region to create a spatial model of beam-induced backgrounds with the aim of providing fast feedback to improve accelerator conditions.

Funding Agency

Footnotes

I have read and accept the Privacy Policy Statement

Yes

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