PHYSICS:
Launching our future

Contribution ID: **253**   Type: **Talk (preferred)**

Unruh-DeWitt Detectors with Relativistic Centre of Mass

Wednesday, 14 December 2022 16:30 (15 minutes)

We consider a relativistic UDW detector model with first-quantised centre of mass, which we compare to a full field-theoretic description. We analyse the transition rate to first-order in perturbation theory for different types of minimum uncertainty state.

Primary author: GALE, Evan (University of Queensland)

Co-author: ZYCH, Magdalena (University of Queensland)

Presenter: GALE, Evan (University of Queensland)

Session Classification: AIP: Theoretical and Mathematical

Track Classification: AIP Congress: AIP: Theoretical and Mathematical