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Challenges ahead of the ILD SiW-ECAL

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The traditional purpose of the ECAL of the ILD experiment is to measure neutrals (especially photons, but also the interacting neutral hadrons) while tracking the charged particles for particle flow algorithms.

A highly granular Silicon-Tungsten ECAL (SiW-ECAL) is particularly suited for these tasks.

The SiW-ECAL faces many technical challenges: some remain to be tackled, while new ones, such as a precise timing, still need to be fully evaluated.

It is proposed here to make a review of the art on all these issues.

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