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TGeo reloaded - beyond the legacy

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Being for more than 10 years in production, the ROOT geometry package is used for the description of several geometry setups in HEP and beyond, being also at the core of many applications which require geometry functionality such as particle transport and tracking, event display, detector description or visualization. Recently multithreading capable, the package was used as baseline for developing GeantV and was one of the main references for extracting navigation functionality into common tools such as USolids and VecGeom. While the main goal is to focus the development to a single geometry engine for HEP, TGeo’s legacy features have to be preserved and evolved to delegate some functionality to the high performance VecGeom approach. We describe the plan for this migration as well as the mid term expectations for the TGeo package.

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