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New features in ROOT geometry modeller for representing non-ideal geometries

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HEP experiments have generally complex geometries that have to be represented and modelled for several purposes. The most important are simulation and reconstruction, where people generally do rely on some "ideal" geometry representation that is modelled within the simulation framework. The problem that the "real" experiment geometry contains perturbations to this "perfectly aligned" model that needs to be taken into account. We will present the ongoing efforts within ALICE and ROOT frameworks to provide support for dealing with mis-alignment information at the level of ROOT geometry modeller.

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