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Investigation of magnetic field inside Belle2 spectrometer

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The Belle II detector, dedicated to investigation of B mesons properties, started data acquisition on SuperKEKB e+e- collider this year. Precise measurement of particle momentum in 1.5T magnetic field is crucial for the success of physics program. The measurement of the field inside tracking detector volume was performed in collaboration between CERN, DESY, IFJ PAN and KEK labs. Field itself is complex, as it is a product of combined effect of main analyzing solenoid and system of compensating solenoids.

Combination of two robotized measurement campaigns and simulation is used to create final field map for track reconstruction. Mass distribution of known particles is used to assess field map quality.

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