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Spin based beam energy measurements

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The Future Circular electron-positron collider, FCC-ee, will require precise measurement of its beam energy. The proposed method of resonant depolarization has been successfully used at the Karlsruhe Research Accelerator (KARA) at the Karlsruhe Institute of Technology (KIT) for a long time. With a high amount of available machine physics days, short polarization times and flexible beam conditions, KARA provides a unique opportunity for in-depth systematic studies of the characteristics of this measurement technique. This presentation summarizes the resonant spin polarization efforts at KARA and discusses possible areas for future studies.

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