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CEBAF Polarized Positrons and 22 GeV Energy Upgrade

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CEBAF is a recirculating CW SRF accelerator running polarized electron beams at 12 GeV to fixed targets for nuclear physics study. A very efficient upgrade proposal has been developed for energy increase to 22 GeV without any additional SRF, based on increase of the number of recirculations using new FFA permanent magnet arcs. The polarized positron beam capability, synergistic to the energy upgrade, has also been developed, and will be presented in this talk together with the details of the 22 GeV energy upgrade.

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