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Alpha channeling using stationary waves in a centrifugal mirro[1]
ABRAHAM FETTERMAN, NATHANIEL FISCH, Princeton University — In a mirror with supersonic rotation, charged fusion products might interact with radio-frequency waves to maintain the rotation against drag forces. Magnetic ripples that are stationary in the lab frame can match the cyclotron frequency in the particle frame, allowing resonant interaction without requiring power input. We examine the feasibility of using these waves in a fusion device with a deuterium-tritium plasma.

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