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Laser Power Stabilization via Radiation Pressure

Build a prototype of a power stabilization scheme that can satisfy the stringent requirements for the future generation of gravitational wave detectors, like the Einstein Telescope and Cosmic Explorer.
Power fluctuations of a 10 Watt laser beam are transferred to fluctuations in the position of a suspended mirror. The mirror position is read out via a Michelson Interferometer and the output signal is fed-back to a power actuator.

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