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A high-isolation, low-loss, in-vacuum, thermally-controlled Faraday isolator

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A novel simple Faraday isolator system allowing for a good isolation factor and low throughput losses, under high vacuum and exposed to a source of medium-near infra-red continuous laser radiation is presented. An isolation factor as high as 40dB and losses lower than 3% can be reached in the presented set-up. The mechanical and optical configuration is detailed and the performances achieved are presented.

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