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Overview of a low exported force and torque measurement facility

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Increasingly, exported forces and torques (EFT) from cryocoolers and other mechanisms are a system level concern with lower levels becoming the norm for instruments with cryocoolers. EFT targets of ≤ 50 mN force and ≤ 25 mN-m torque in the 0-500 Hz range are expected. To meet these targets, Ball Aerospace developed both a low EFT cryocooler mount and a facility in which to make these measurements. This facility and its capabilities will be described herein.

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