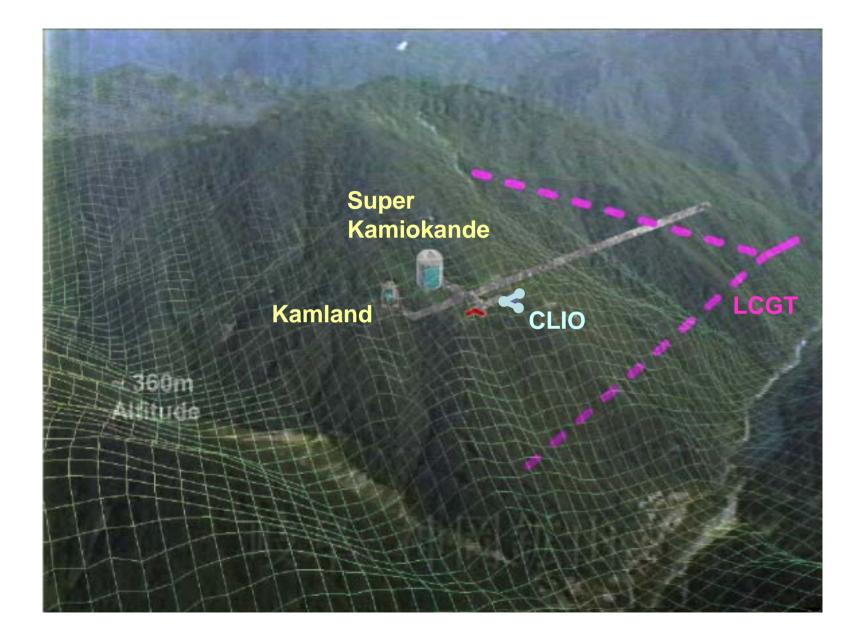
低温レーザー干渉計CLIO(VII)

寺田聡一, 黒田和明, 大橋正健, 三代木伸二, 内山隆, 山元一広, 徳成正雄, 阿久津朋美, 鎌ヶ迫将悟, 中川憲保, 新冨孝和, 山本明, 春山富義, 鈴木敏一, 佐藤伸明, 都丸隆行, 竹本修三, 早河秀章, 新谷昌人, 高森昭光, 辰巳大輔, 安東正樹



History of CLIO

- 2003 Jan. Experimental cave completed
- 2004 Jan. MC vacuum chamber installed
- 2004 Apr. Input optics installed and MC locked
- 2004 Oct. One cryostat installed
- 2005 Mar. Perpendicular arm vacuum system installed
- 2005 May One cryogenic pendulum installed
- 2005 Jun. Inline arm vacuum system installed
- 2005 Jul. Second cryogenic pendulum installed
- 2005 Sep. Inline arm FP experiment started

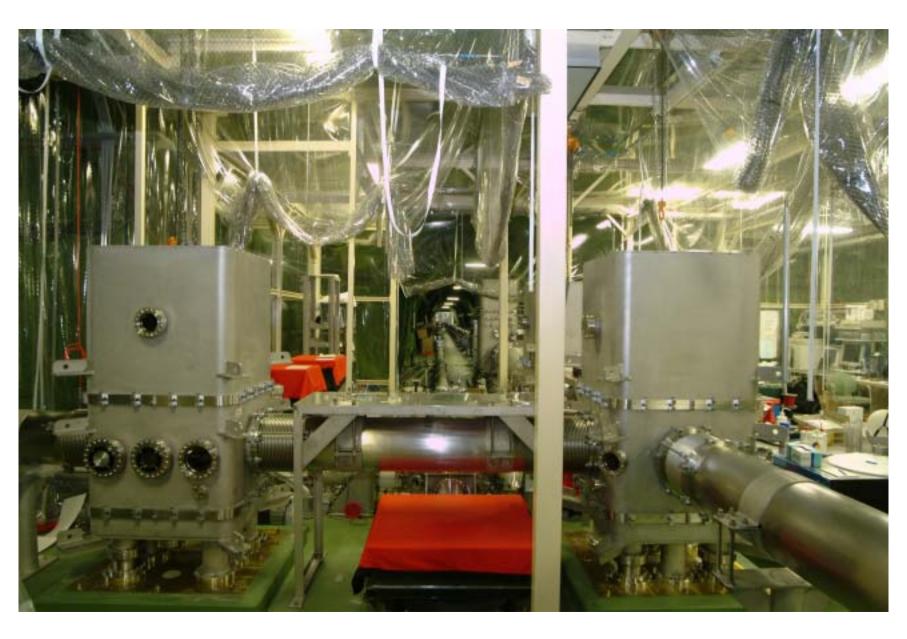


History of CLIO

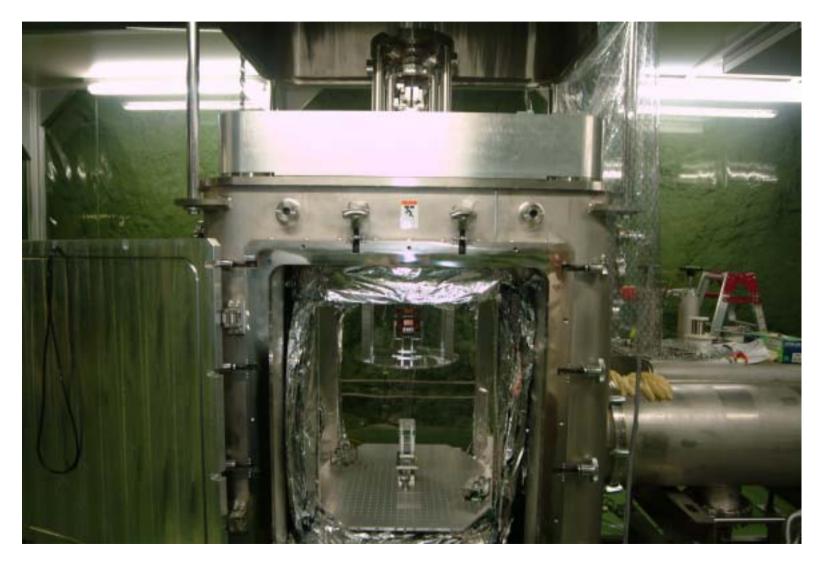
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CLIO Vacuum System





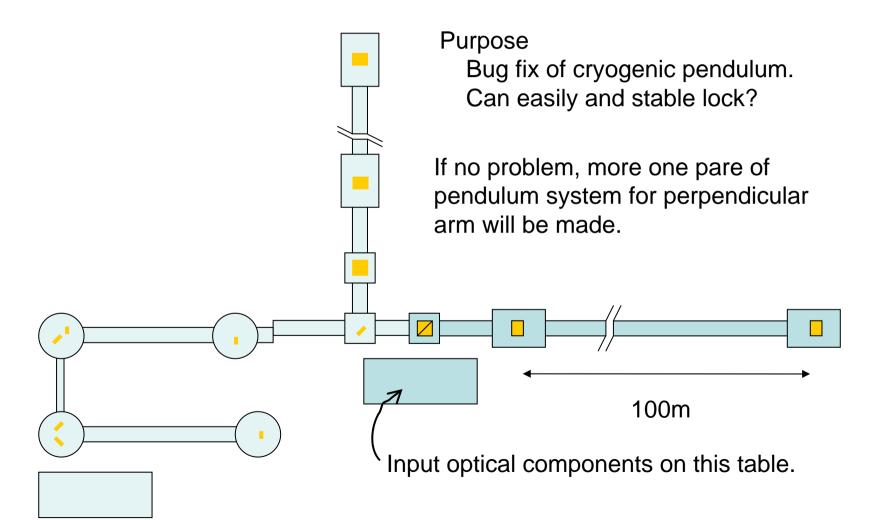
Cryogenic Vacuum Tank



Cryogenic Pendulum



Inline FP Experiment



Summary of Inline FP Experiment

- Input optics have been installed.
- Incident beam achieved to the end mirror and the reflected beam came back to the near mirror chamber without near mirror.
- Since laser power was small (100mW), the transmitted light through the near mirror was lost.
- The mirror has wedge (10 arc min.) (out of our knowledge).
- Will replace to high power laser.
- Will change incident axis for the wedge.