

LSC Six-Month Progress Report

Organization German/British Collaboration for Detection of Gravitational Waves
(GEO600)

Report Date February 15, 2004

Attachment D / Advanced Detector Configurations

- a) A 3 mirror coupled cavity system has been constructed within the interferometer test facility at Glasgow. Initial alignment is complete and the system is ready to undergo initial locking studies and characterization.
- b) Potential of squeezed light for current GW detectors at high frequencies has been analyzed theoretically. The experimental setup at Hannover currently provides squeezed light (1064 nm) at sideband frequencies of 80 kHz and above.