LIGO-G990079-18-M

Close Out Report LSC 21 July 1999

Core Optics Compensation, Ancillary Optics and Photodiodes - Tanner

Lasers - Savage

Core Optics - Camp

LIGO Scientific Collaboration Lasers and Optics Working Group

Core Optics Compensation, Ancillary Optics and Photodiodes

Core Optic Thermal Compensation
X 10 for both Sapphire (20 ppm/cm) and Silica (1ppm/cm)

Laser based actuator of BS, and both input mirrors
Dark fringe sensing

Ancillary Optics
$LiNbO_3$ PM in low power beams (before power stage or in MZ)
Isolators - point spherical compensation

Thermal Modeling
Mode Cleaner - Beausoleil and Tanner

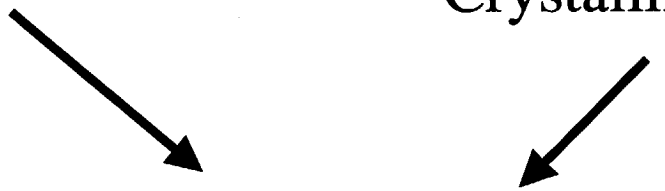
Photodiodes
1 Watt and 100 MHz

Revised Reference Design from Zucker by Friday
and will take responsibility for costing

Core Optics

LIGO Sapphire program

Glasgow, Syracuse& Stanford
Crystalline Core Optics



Pathfinder II - Sapphire Development Program
Jordan Camp

2002(1/2) - 2003 Branch Point Between Silica and Sapphire
Camp is responsible for Reference Design and Costing

c vs a - Axis analysis by December 1999
Beyersdorf, Whitcomb, Zucker, Alexandrovski, Route, and Gustafson

Laser Reference Design and Costing

Schedule worked backwards through FDR, PDR and DDR

Preliminary WBS

Costing analysis begun

Note 1, Linda Turner, 08/17/99 07:58:17 PM
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