

Lasers for LIGOIII

- laser parameters depend a lot on optical layout
- Nd:YAG powers higher than 1kW do not seem to be a problem, Yb:YAG might be better
- main fields of research conventional designs:
 - intensity noise GW band
 - adaptive optics for spatial correction
- research depending on optical layout:
 - different wavelength
 - non gaussian spatial shapes
 - broadband light sources
 - non classical statistics
 - multiple wavelength