



3 LD arrays Pump Modules for Nd:YAG $\varnothing(10...15)\times 140$ mm

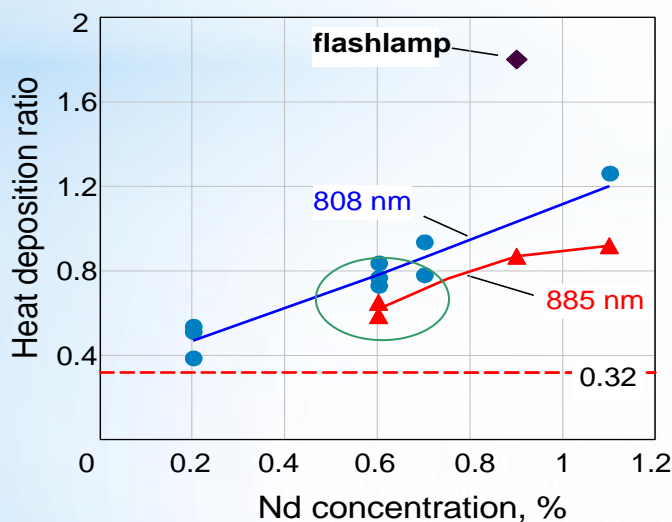


Stored efficiency

- pump wavelength 808 nm: $\approx 17\%$
- pump wavelength 885 nm: $\approx 15\%$

LD pumping efficiency ~ 5 times higher than that of flashlamp

Heat deposition



- at LD pump heat deposition $\sim 2...4$ times lower compared with flashlamp pump
- Heat deposition depends on Nd-concentration

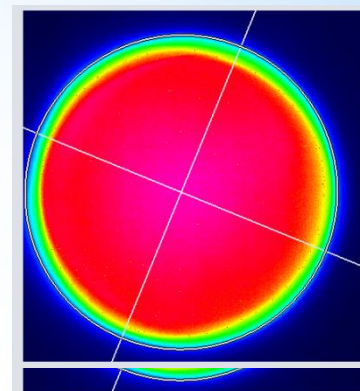
LD pumping

Compared with flashlamp pumping:

- Higher efficiency
- Higher average pump power
- Higher reliability and life time
- Lower heat deposition



Diffuse reflector ($R\sim 99\%$) allows to achieve high pump uniformity



Distribution of stored energy
Nd:YAG $\varnothing 10\times 140$ mm