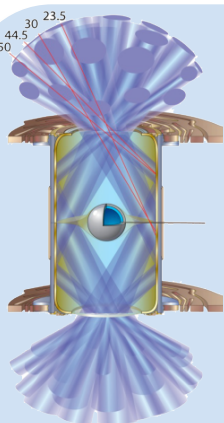
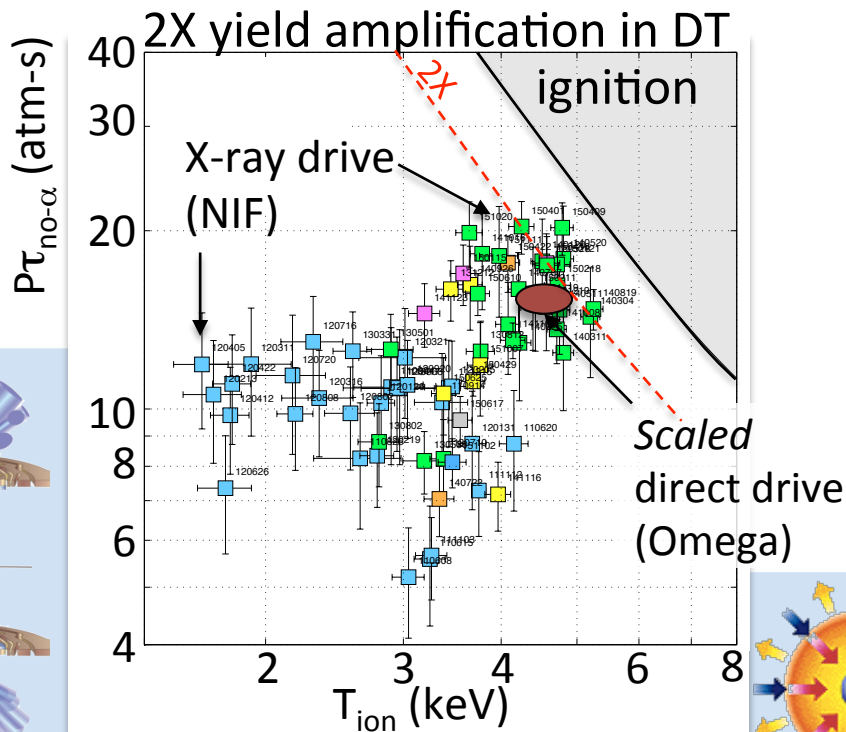


US ICF program advancing on 3 fronts

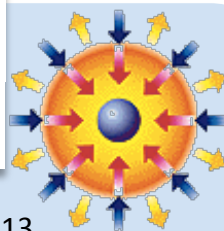
Laser drive – NIF and Omega
alpha self-heating



$$Y_{DT} = 9 \times 10^{15}$$

X-ray drive focus:

- Drive symmetry
- Engineering features



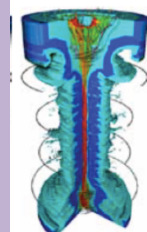
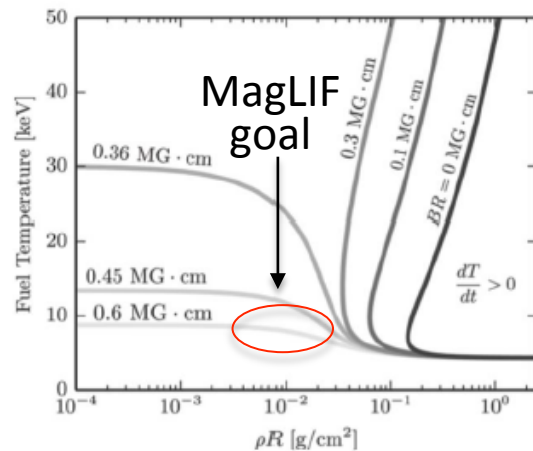
$$Y_{DT} = 5 \times 10^{13}$$

Direct drive focus:

- Implosion uniformity
- Energy coupling

Magnetic drive – Z

Fuel magnetization
 1000X yield amplification in DD



$$Y_{DD} = 3 \times 10^{12}$$

$$BR = 0.35 \text{ MG}\cdot\text{cm}$$

MagLIF focus:

- Laser heating
- Mix

Knapp, Phys. Plasmas 22, 056312 (2015)

Betti and Hurricane, NATURE PHYSICS VOL 12 MAY 2016