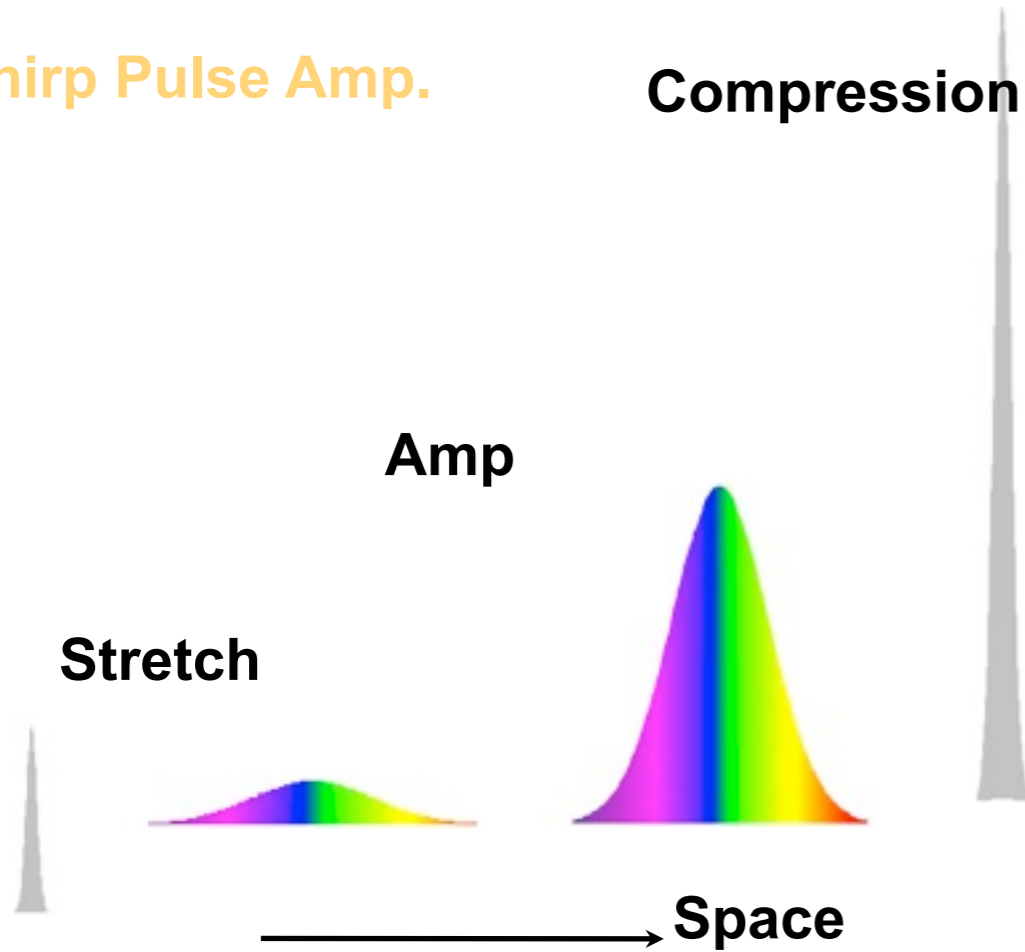


Chirp Pulse Amp.

Compression

Amp

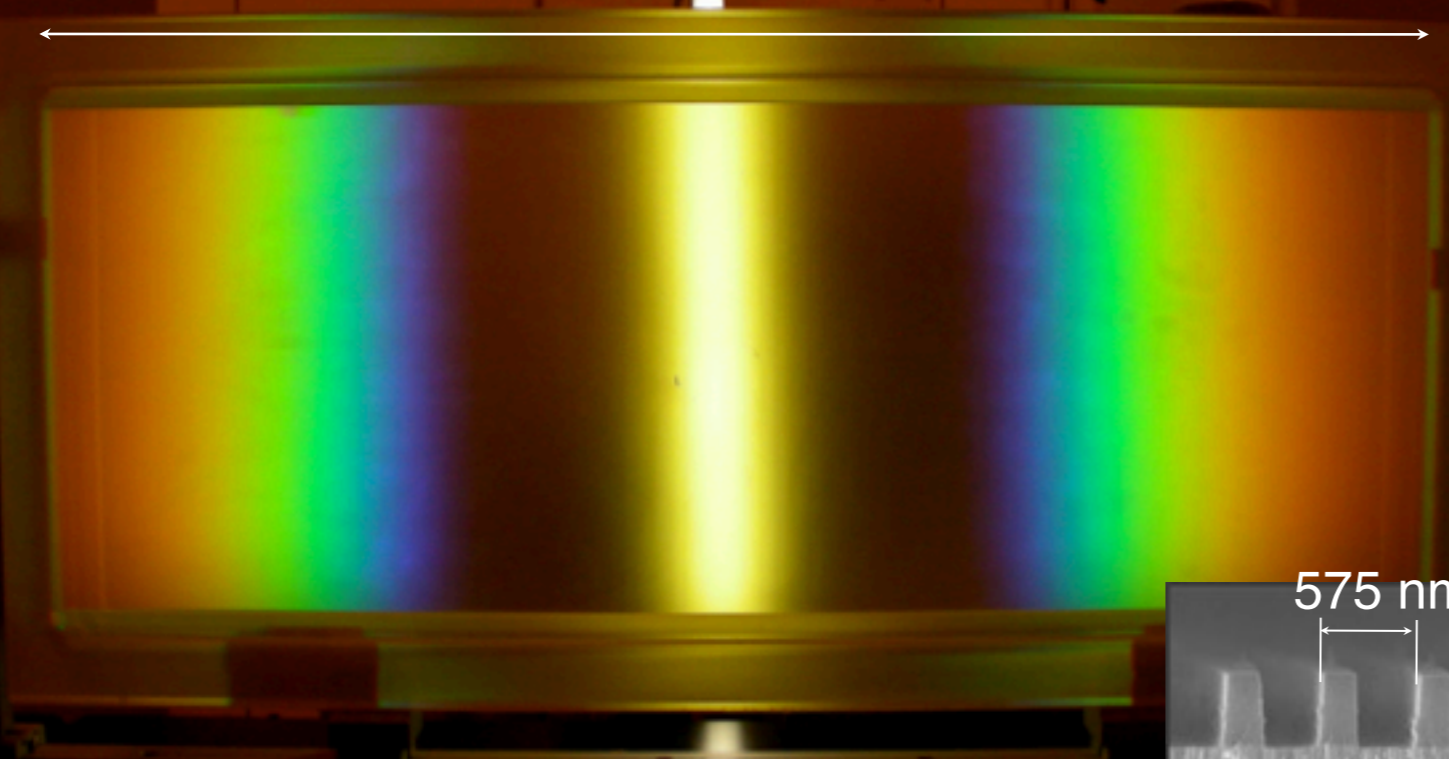
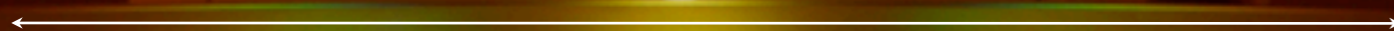
Stretch



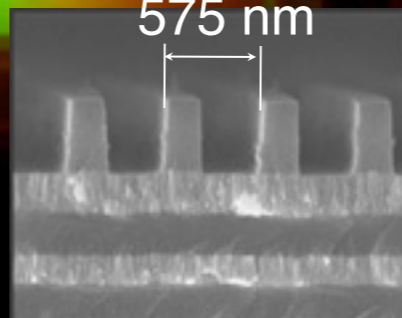
LFEX:  
World Largest Short Pulse Laser



92 cm



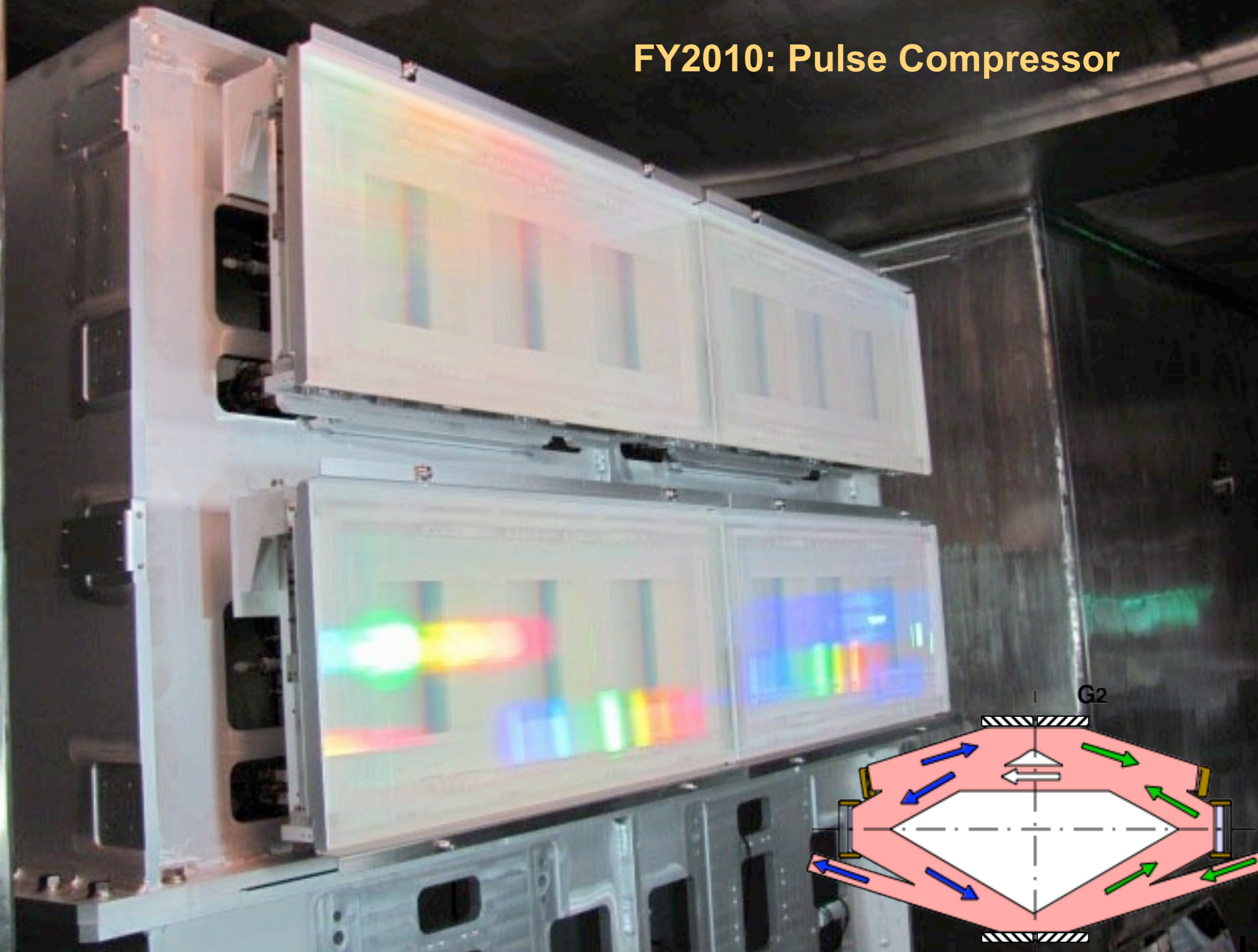
575 nm



World largest high  
precision grating

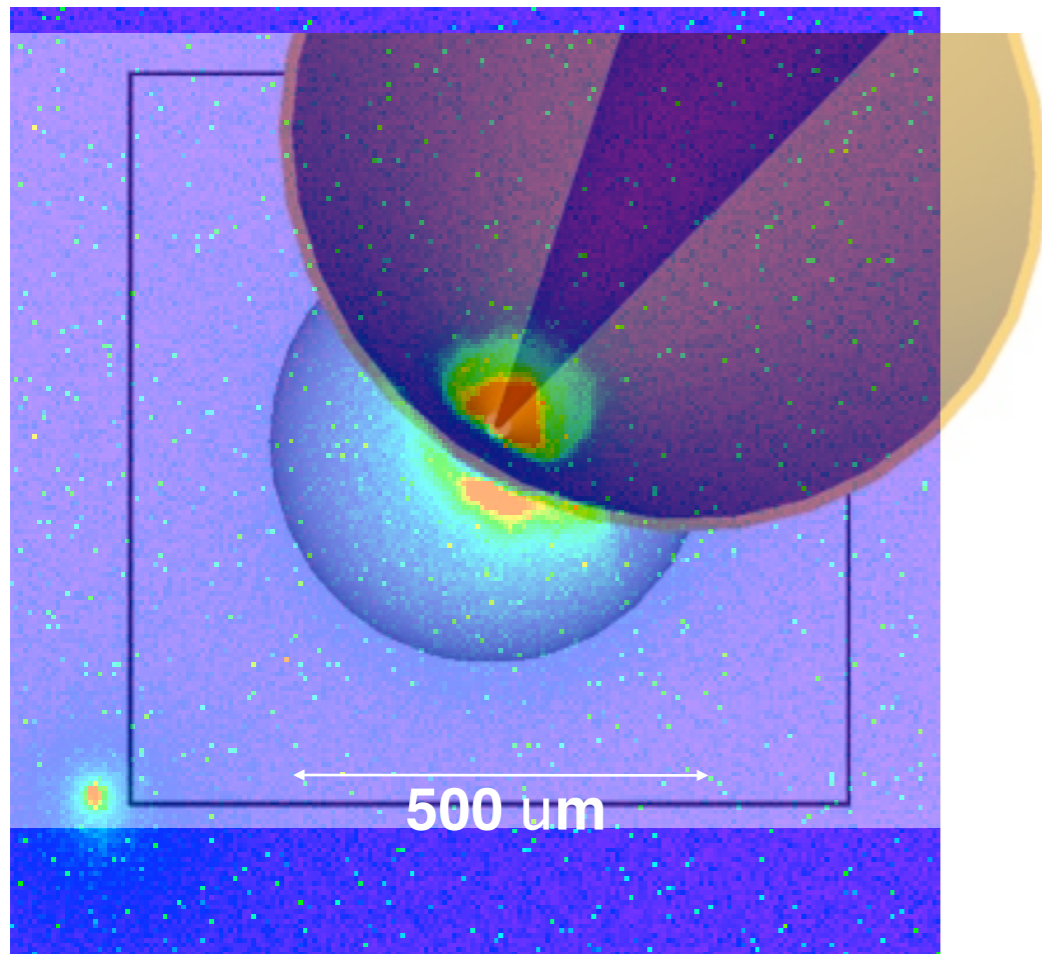
Photograph by Joe Nishizawa

# FY2010: Pulse Compressor



# FIREX-I 統合実験

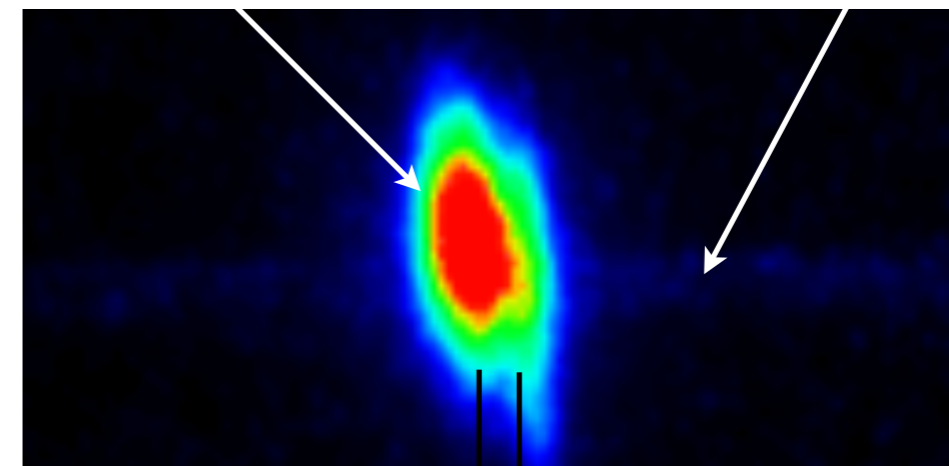
コーン側から見たX線ピンホールカメラ像  
(時間積分)



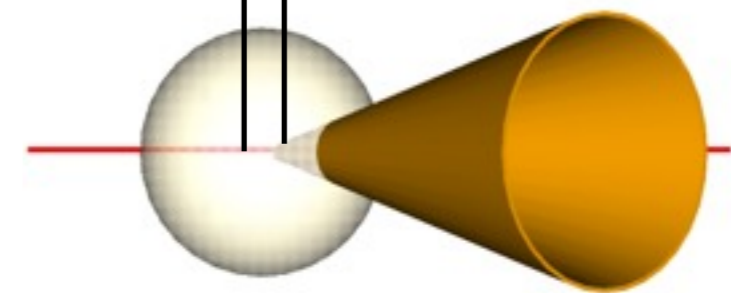
側面から見たX線ストリークカメラ像  
(時間分解)

爆縮による発光

加熱レーザーによる発光



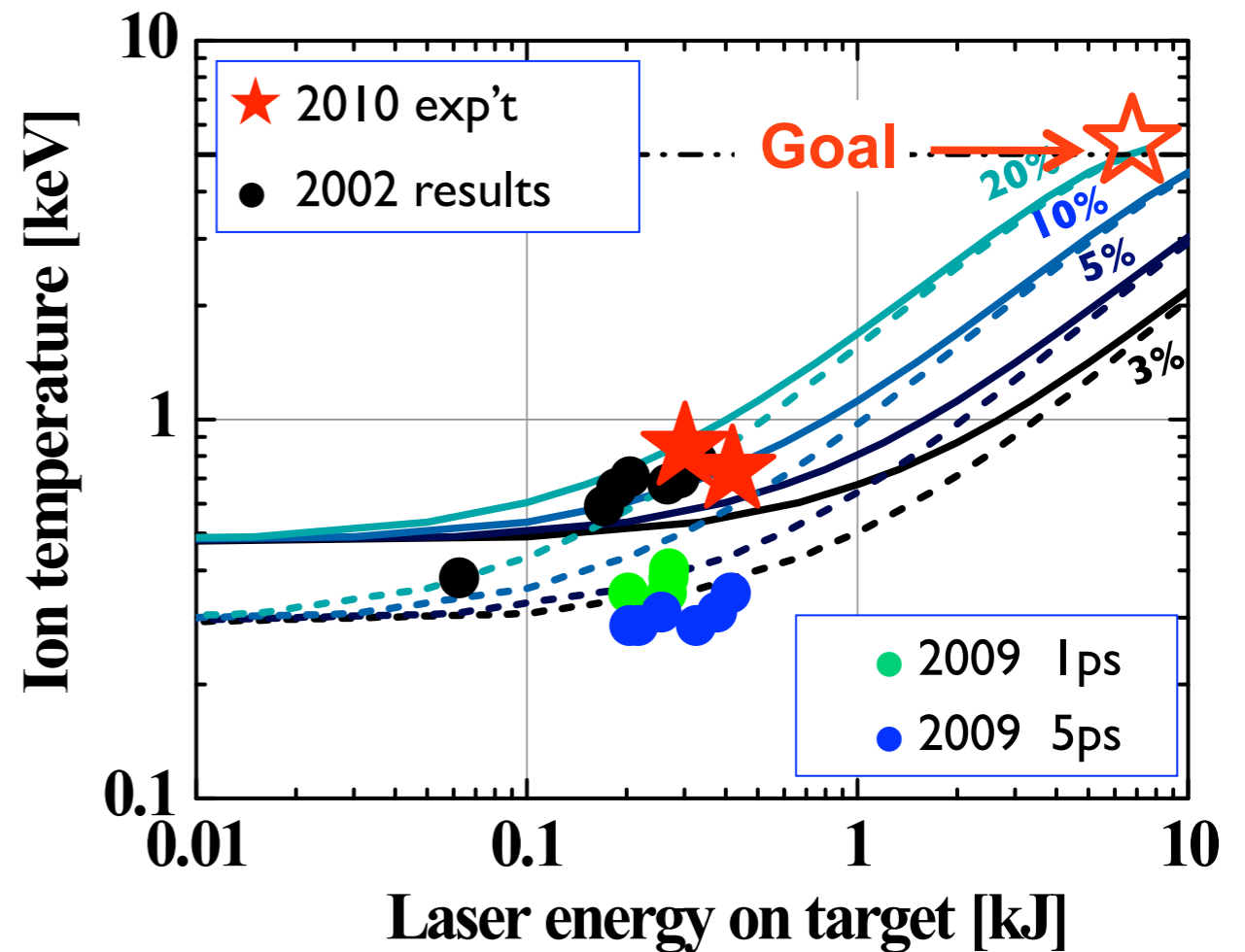
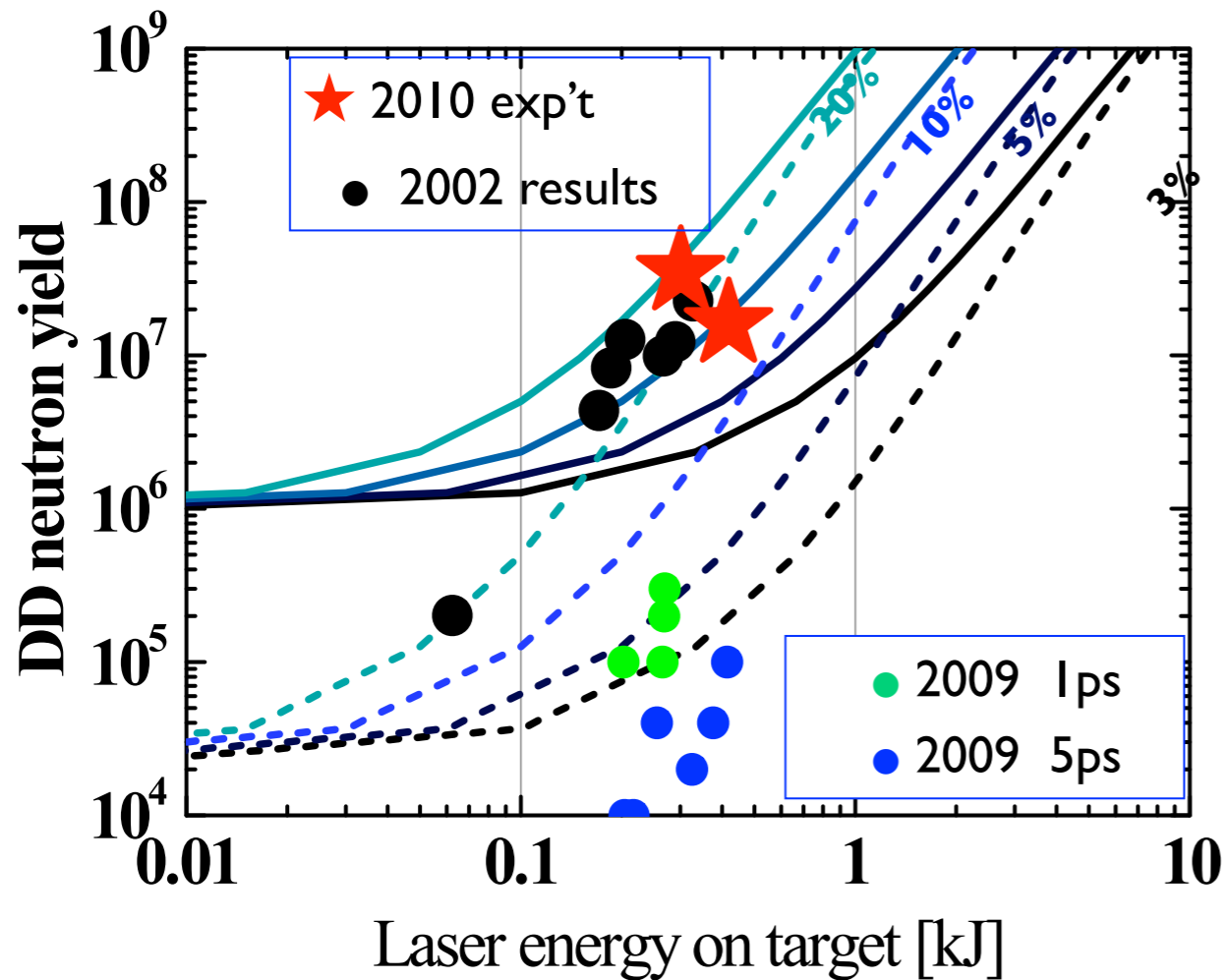
Time  
500 ps



コーン内に加熱ビーム (LFEX) を注入

加熱時刻を確定

# FIREX-I 中性子発生数とイオン温度



Marks → experiments

Lines → simulations

dashed lines : for 2002 exp't

solid lines : for 2010 exp't

中性子発生数, イオン温度ともに2002の記録を凌駕し,  
5千万度加熱の確実な見通しを得た。