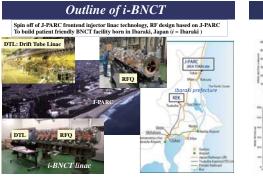
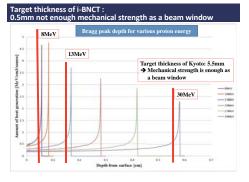
# Three tier blistering tolerant neutron target for iBNCT by using 80kW proton linac.

HPT14, Fermilab, 20-23 May 2014

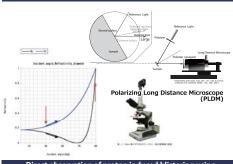
KURIHARA, Toshikazu High Energy Accelerator Research Organization (KEK) & iBNCT Target R&D group (MTC, NGK, MHI)

Lithium target is too dangerous for the hospital use.



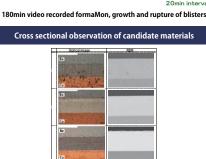


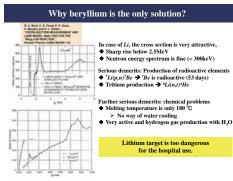
Surface observation with PLDM ncident angle dependency of reflectivity of s, p polarized light

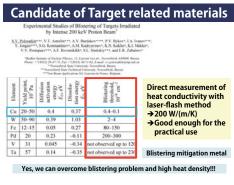


# Direct observation of proton induced blistering using light-polarization and -reflectivity





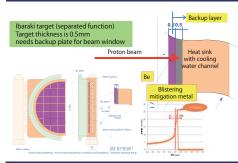




## In situ observation of blistering

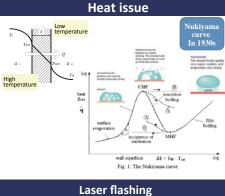


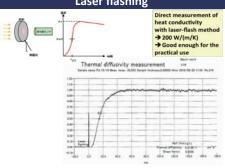
#### Design of the blistering tolerant neutron target



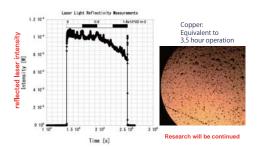
#### Cross sectional observation of diffusion bonded layers







## Blistering observation using reflection laser light



#### White powder on Be Target Sample



As fabricated 2012.11.4 No powder was found.

#### Three tier blistering tolerant neutron target

