

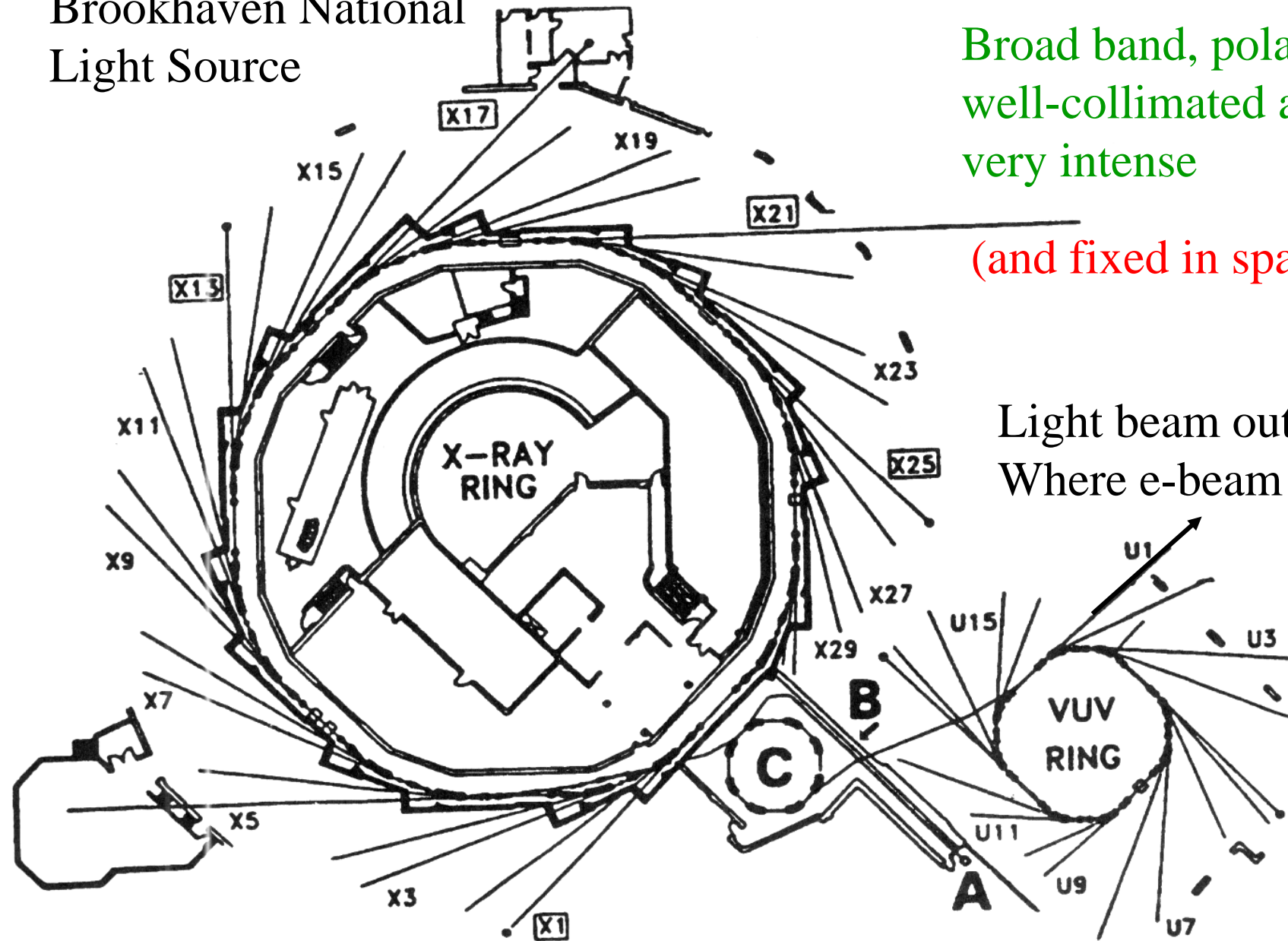
Synchrotron Light Sources – the next big thing

Brookhaven National
Light Source

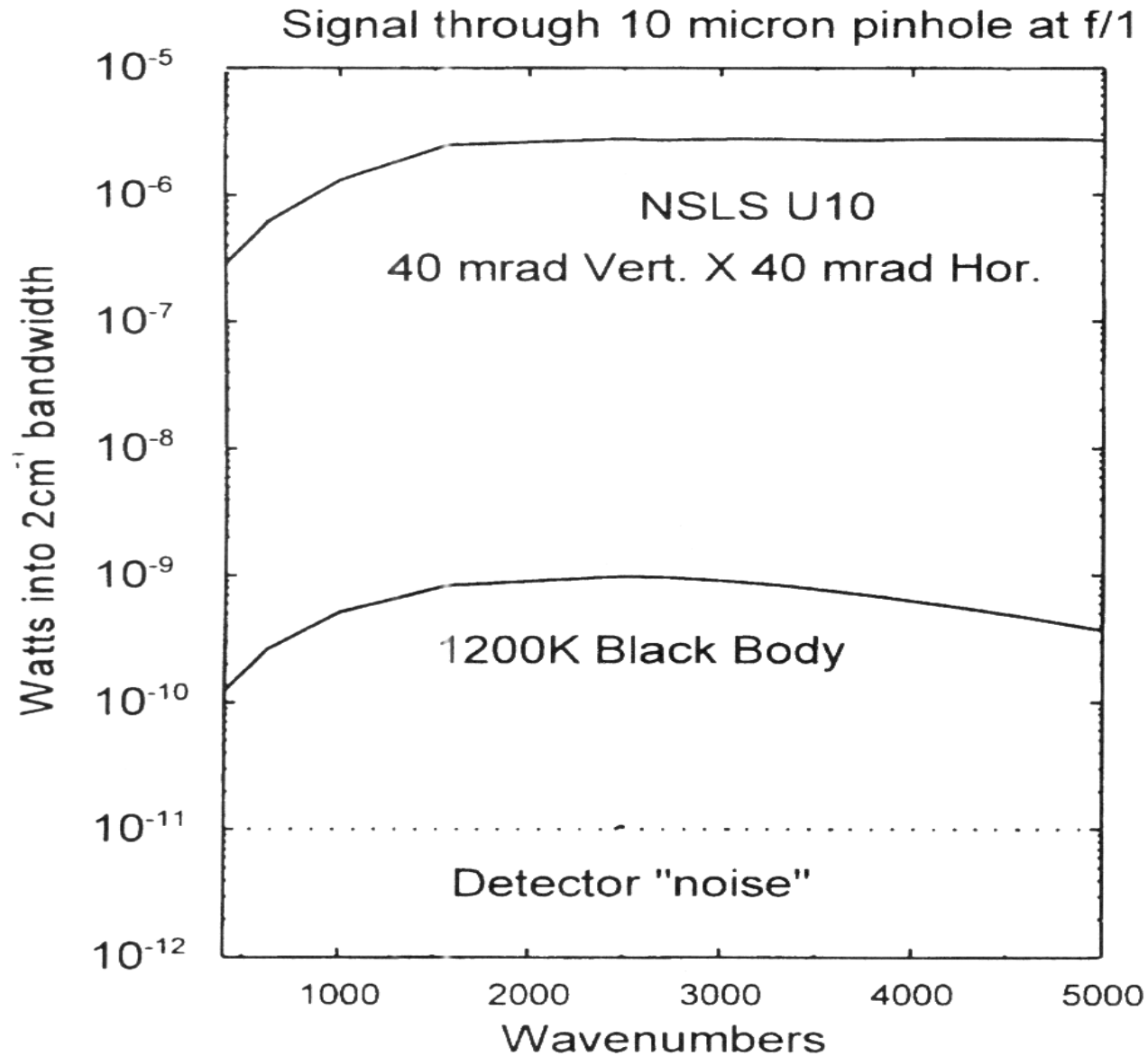
Broad band, polarized
well-collimated and
very intense

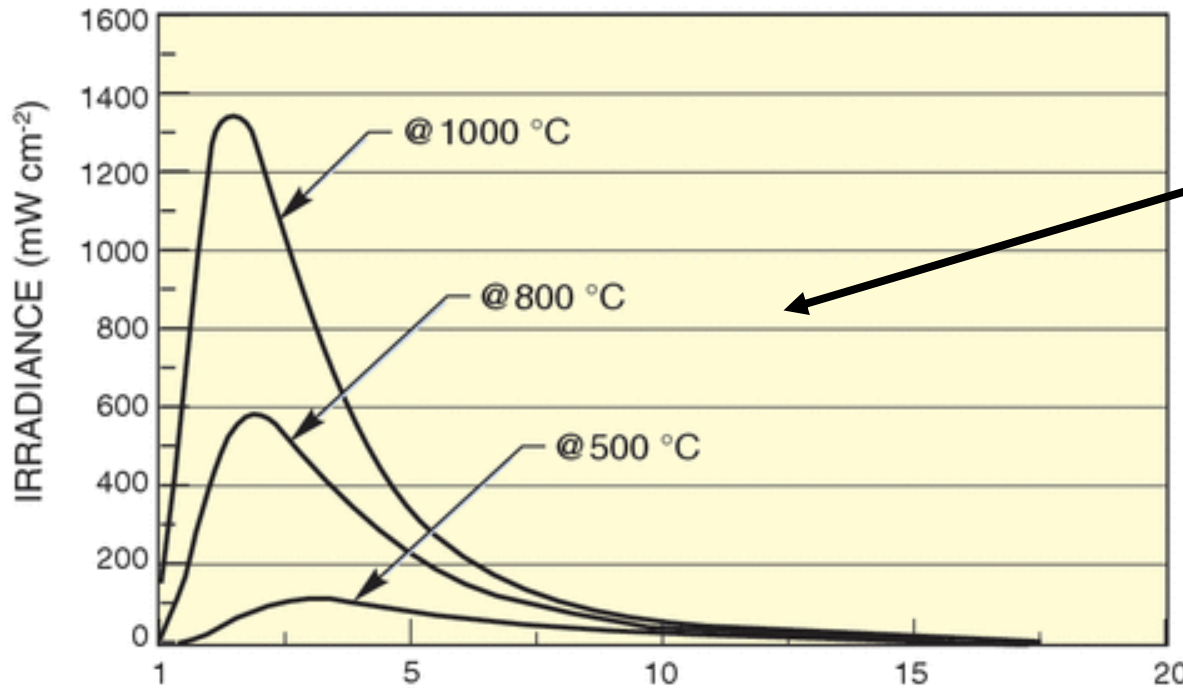
(and fixed in space!)

Light beam output
Where e-beam turns

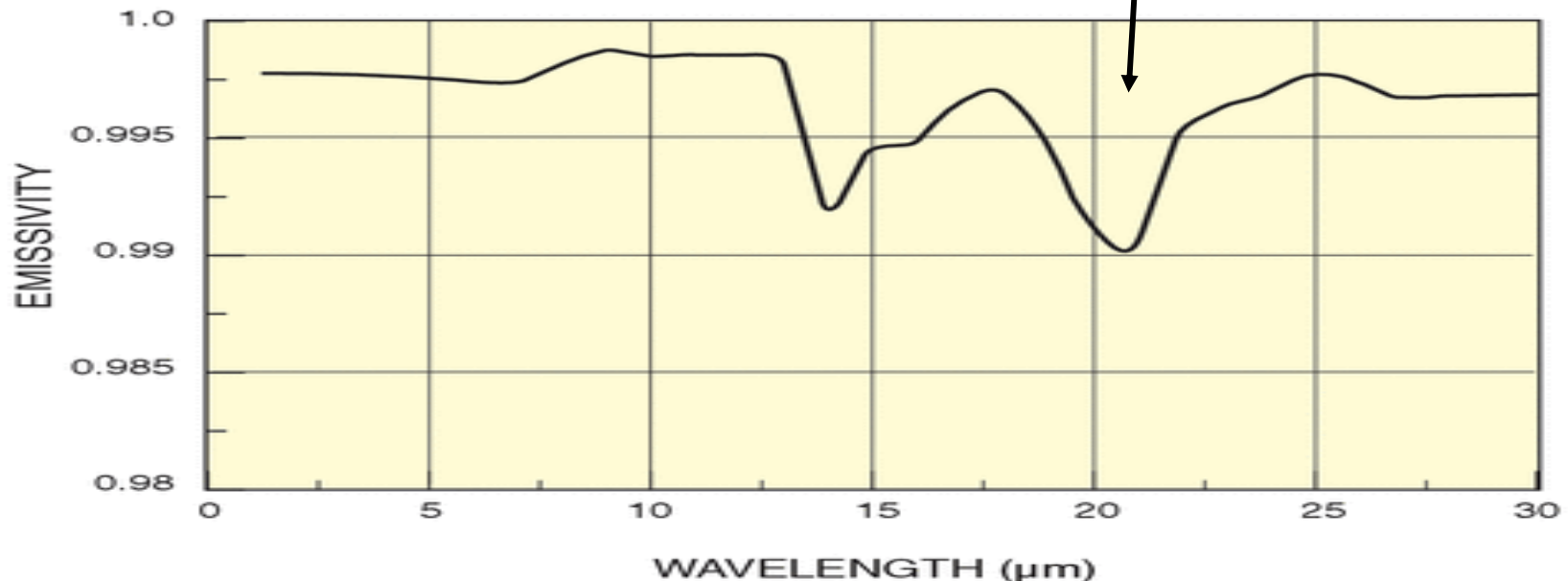


Synchrotron advantage – high brightness



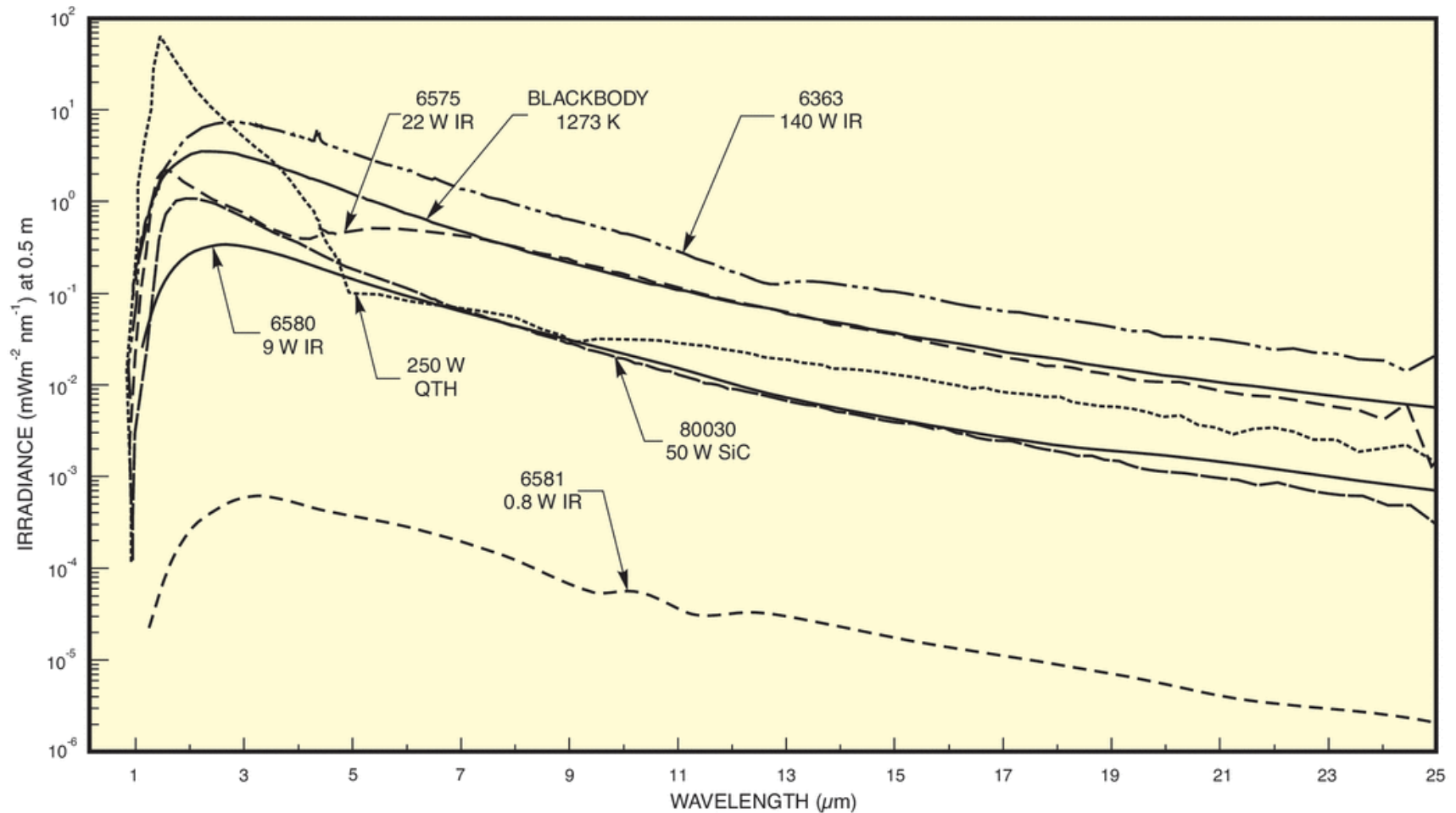


Black body
irradiance and
emissivity
(Oriel heated cavity)



Comparison of Thermal Sources to Black Body

(courtesy Oriel-Newport)



Sources: SiC – glowbar, QTH – quartz halogen, 6580 and 6581 are Oriel IR sources (inexpensive), 6575, 6363 - different design (hotter)

Comparison of Emissivity

Different Ori ϵ sources

