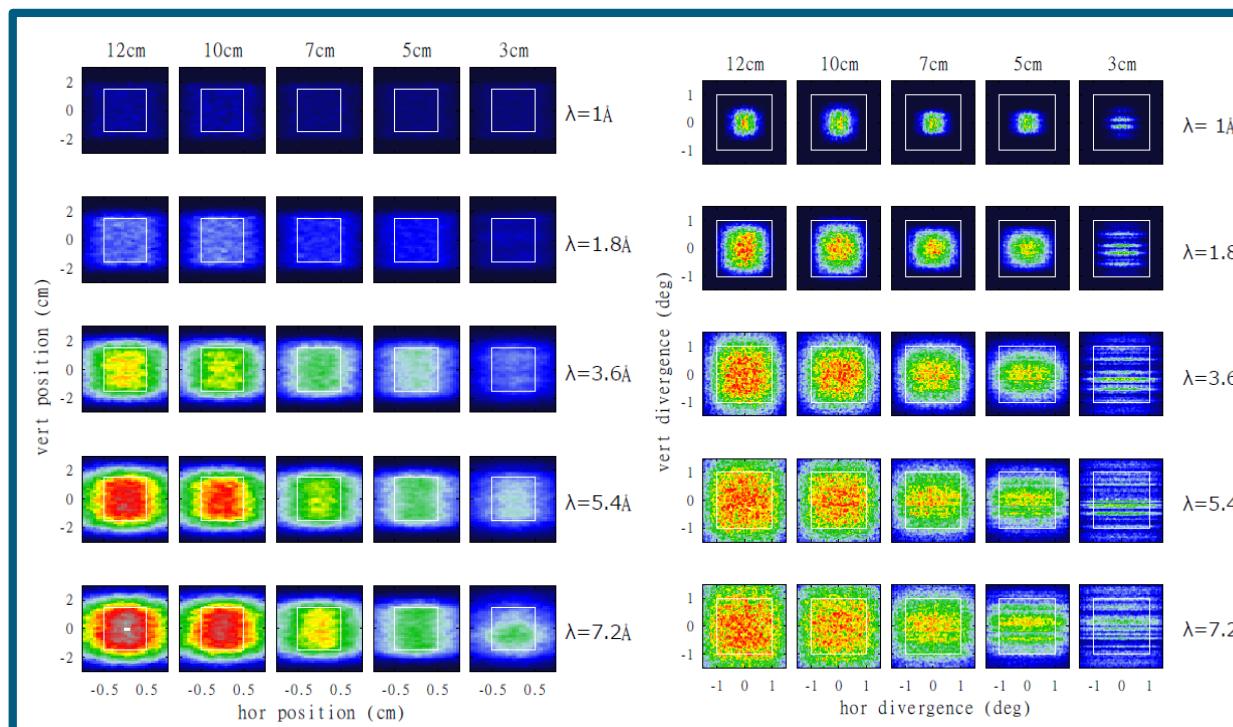
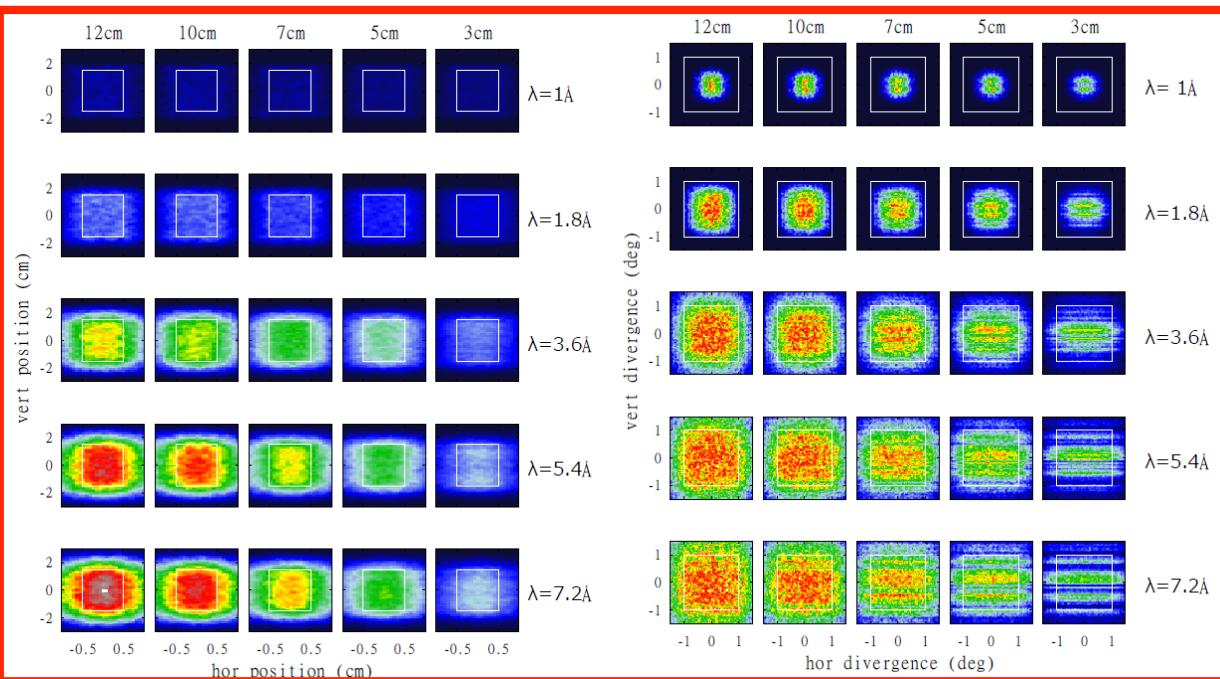


Time-of-flight Reciprocal space Explorer @ ESS

A bispectral chopper spectrometer for magnetism and material science

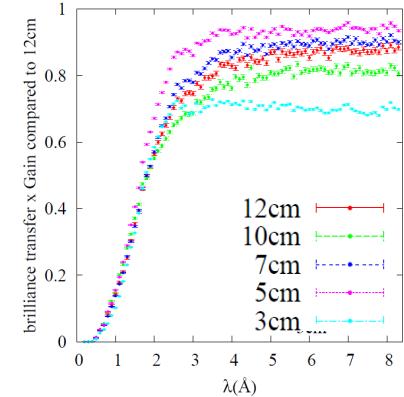
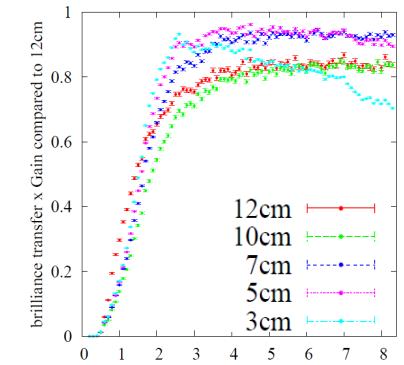
Nicolò Violini

Lund, Pancake moderator continuation Meeting, 12th February 2014



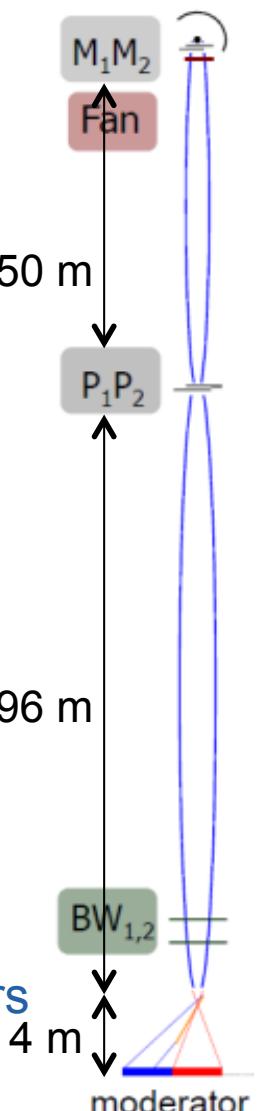
1st task:
Envisaged guide

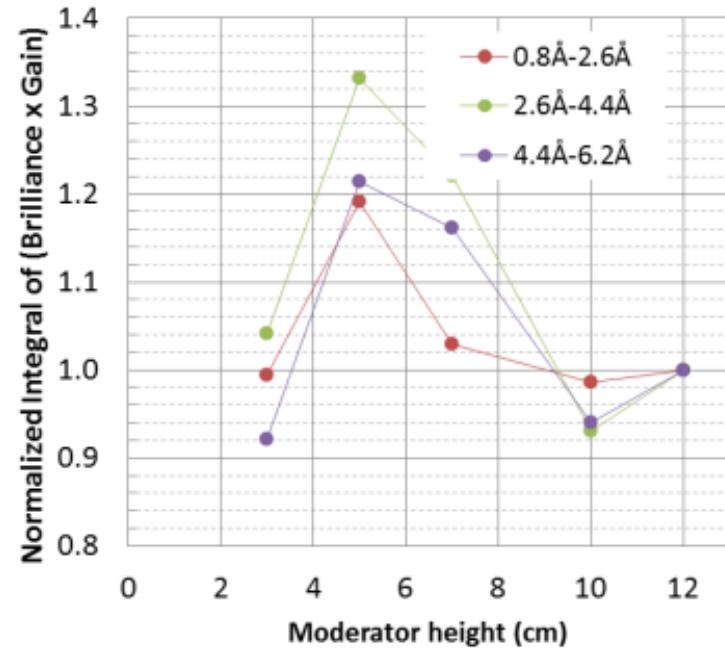
T-REX layout
R.o.I.:
 $1 \times 3 \text{ cm}^2 \pm 1^\circ$



- Solid angle
- Beam profiles

2nd task:
Optimal parameters

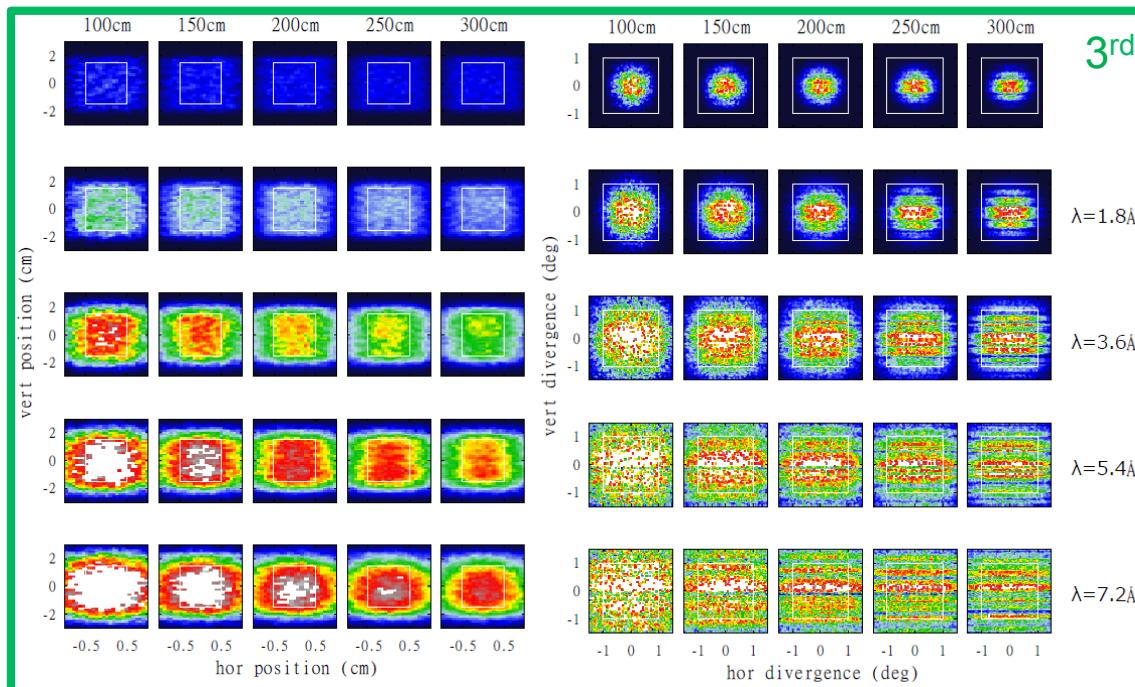




Task 1 + Task 2:

- possible gain 1.2-1.35
- Max identified at 5cm height
- Bispectral extraction
- Smaller sample area?

Possible gain 1.7 ! $\times 1.35 = 2.3$
with respect to baseline 12cm!



3rd task: Extending the guide backwards
3cm moderator

