HALO X-ray imaging applications ADSA14

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Introduction

* Area: Reducing false alarms at the checkpoint
* Solution: HALO real-time diffraction X-ray technology
* How: Novel X-ray optics combined with COTS components to form a threat resolving system for an upstream AT system
* Impact:
  * Reduced false alarms
  * Improved detection
  * Reduce requirements on passengers to divest

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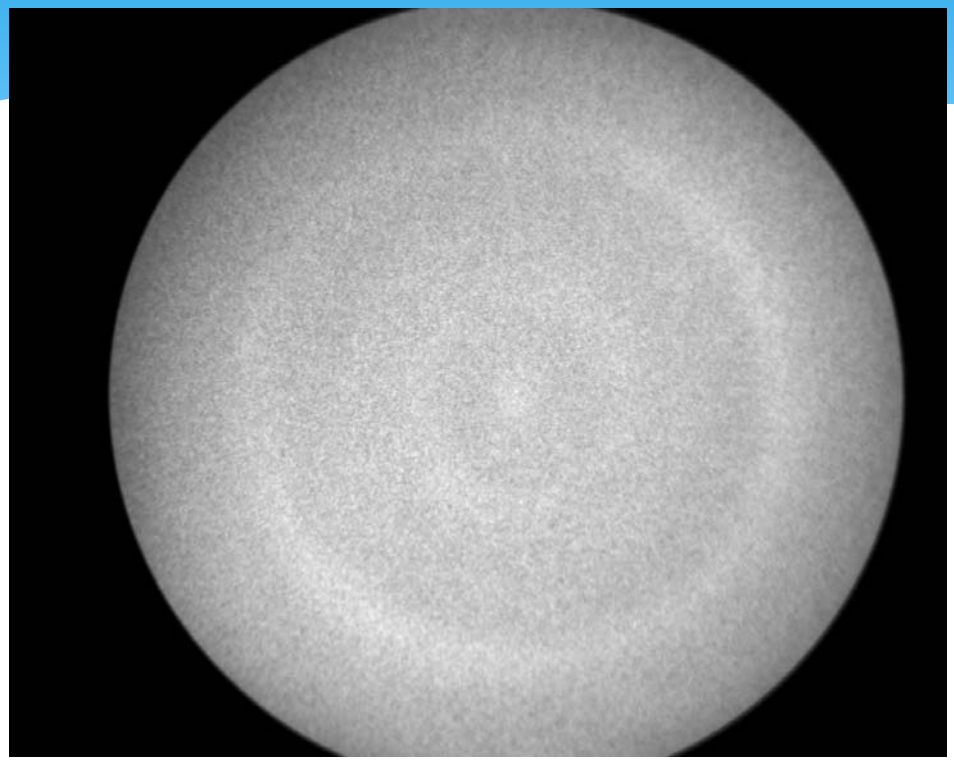

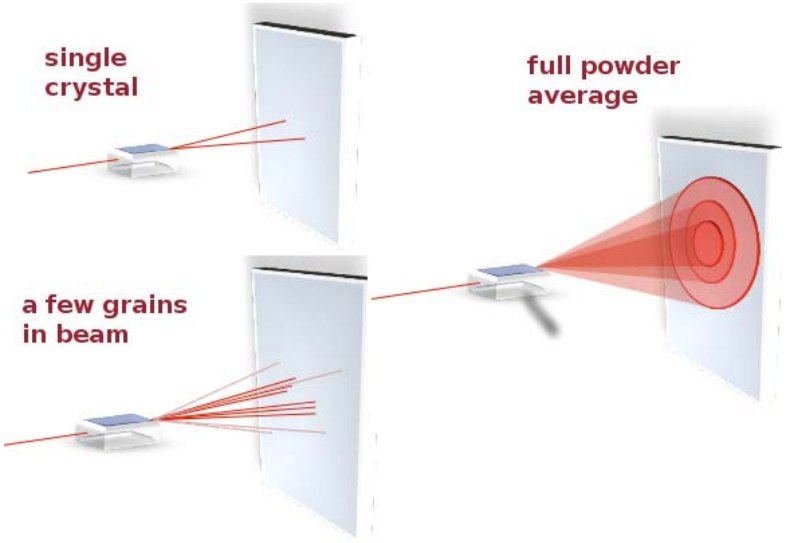

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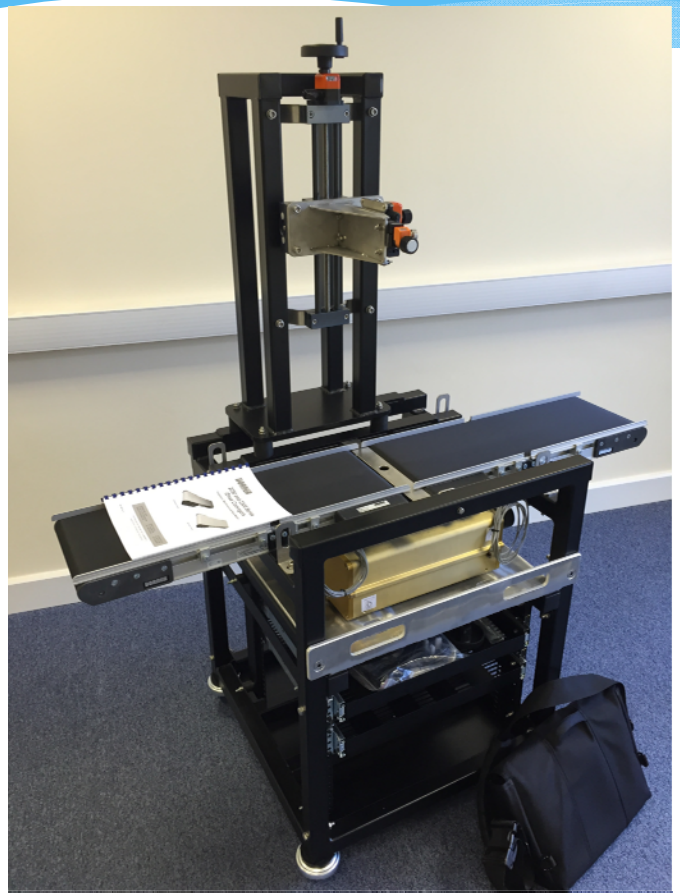

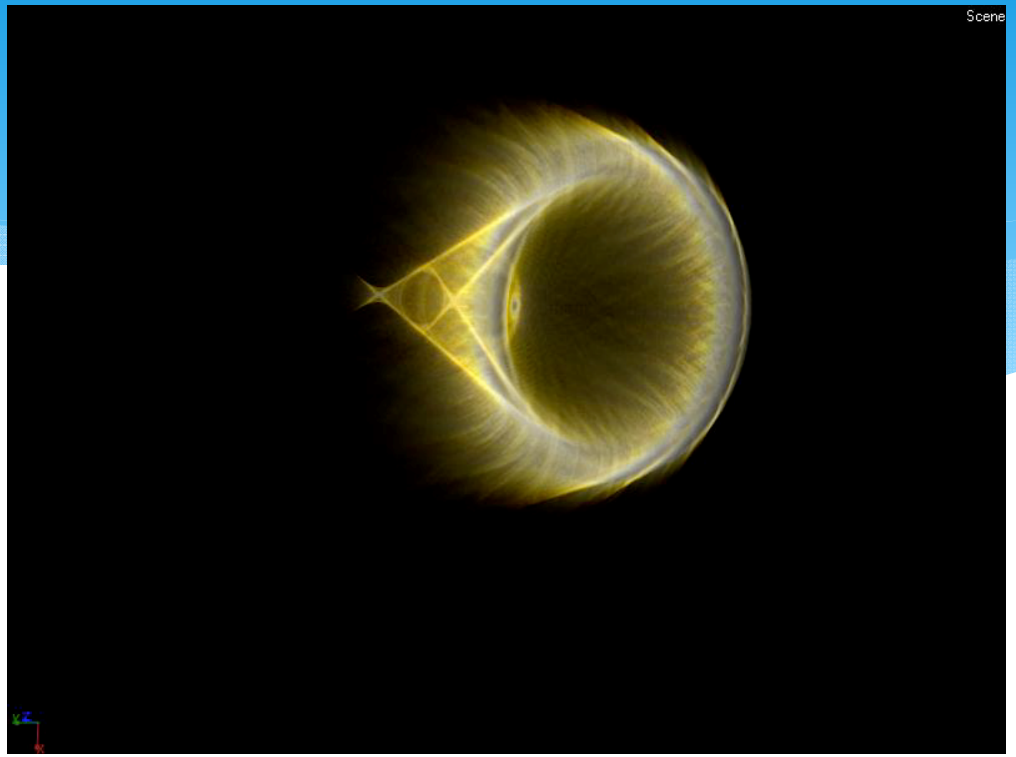

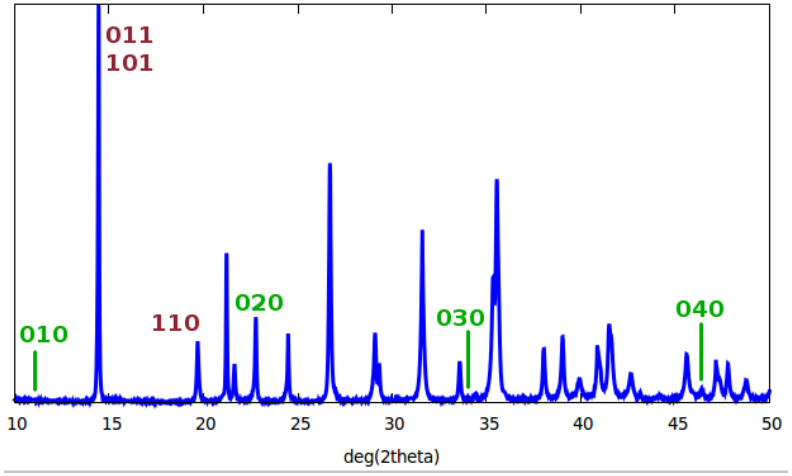

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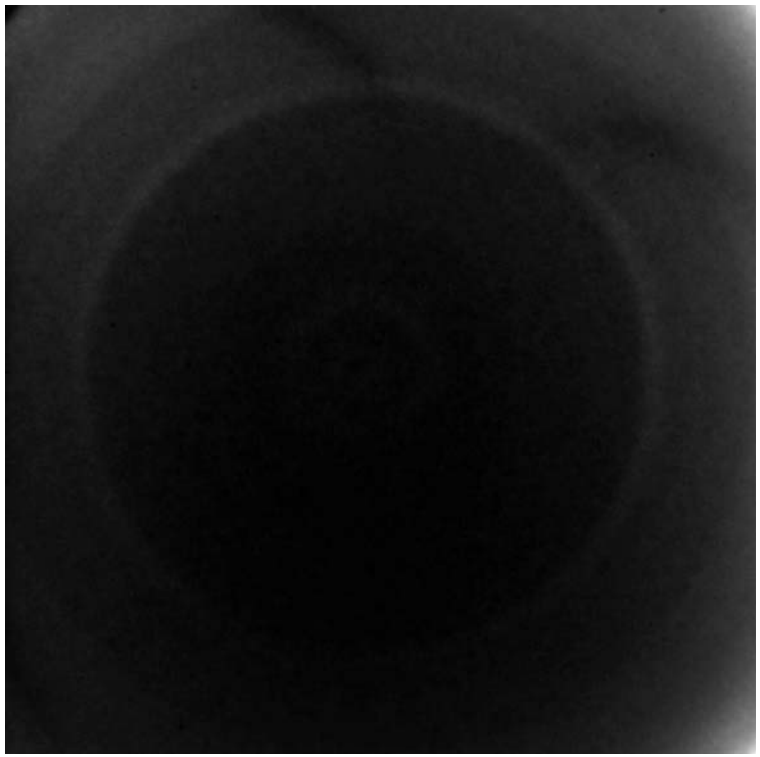

BAA13-05

* Application of FCT to checkpoint screening
* Contract award: 31 August 2015
* Prime: Nottingham Trent University
  * Sub-contractor: Cranfield University
  * Sub-contractor: HALO X-ray Technologies Ltd

Key contacts

Nottingham Trent University -
Lead scientist: Professor Paul Evans
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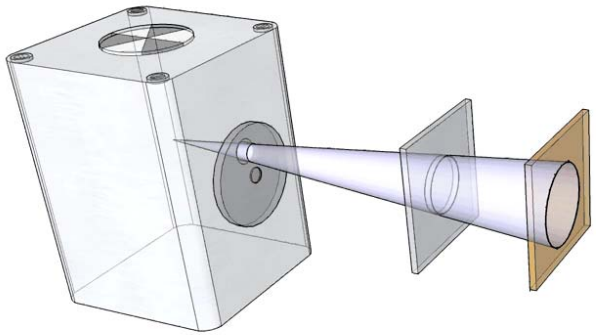
Further information

- Contact BAA13-05 team
- HXT website
  - http://haloxray.com/
- Optics Express publications
  - https://www.osapublishing.org/search.cfm?q=evans,%20rogers&meta=1&cj=1&cc=1
- Youtube
  - https://www.youtube.com/watch?v=w_kzUQHnIhE

Focal Construct Geometry



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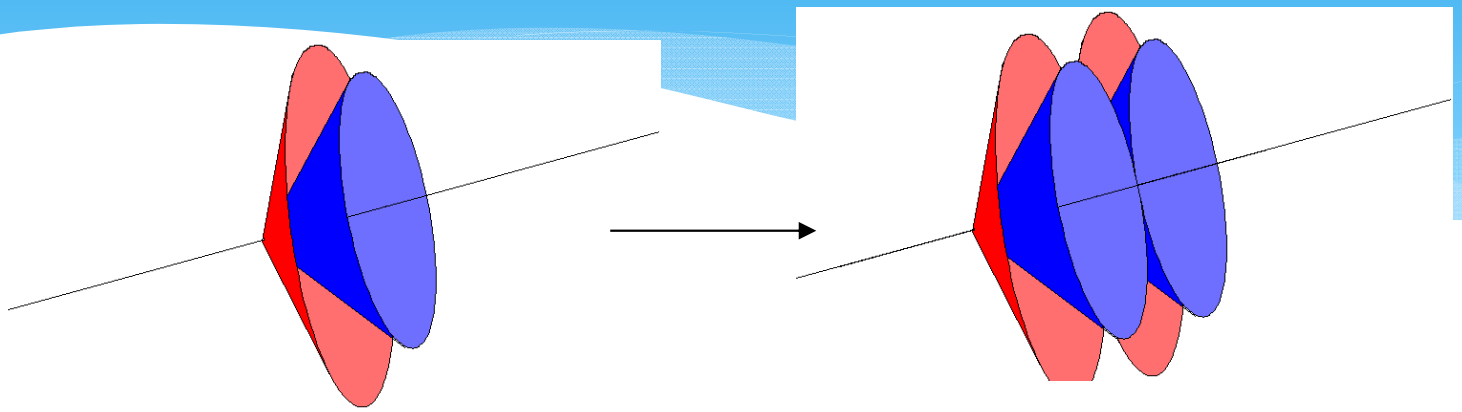

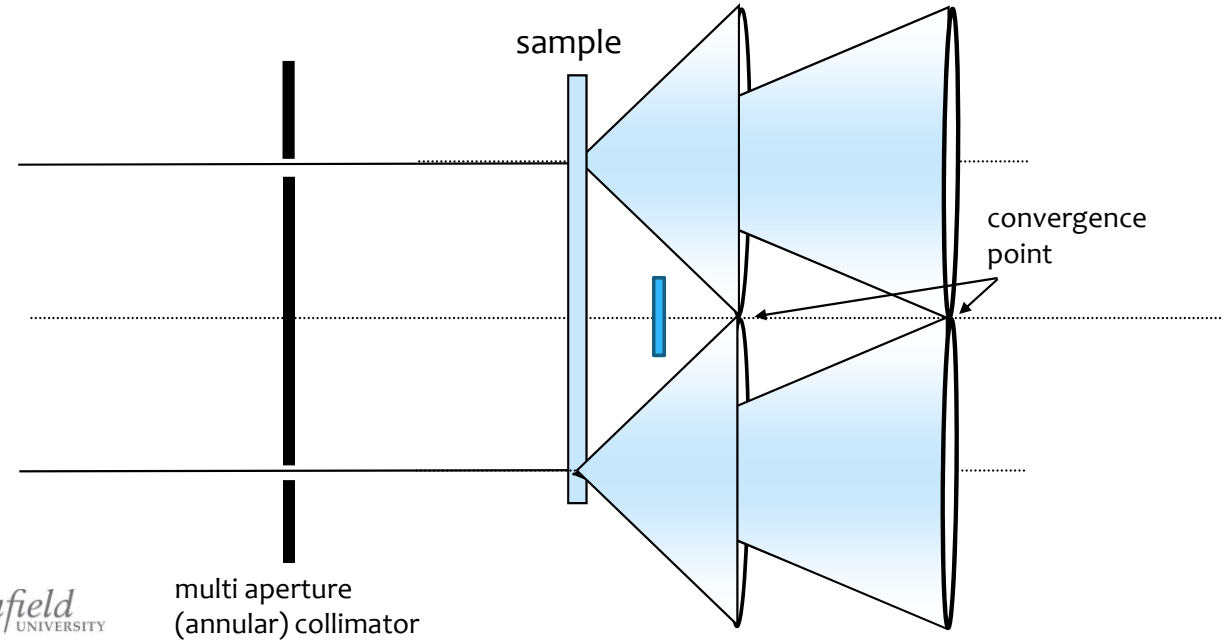

HALO system-of-systems