## The Multi-Detector System for the powder diffractometer at beamline B2

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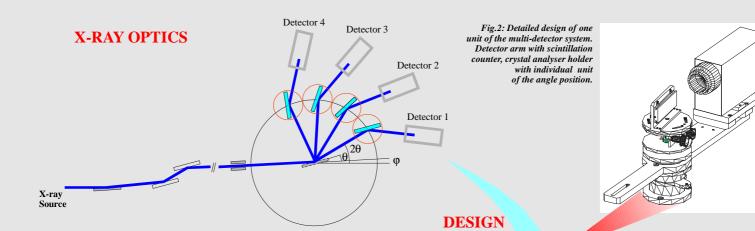


Fig.1: Schematic diagram of experimetal configuration for synchrotron X-ray powder diffractometer at beamline B2 with mirror, monochromator and the multi-detector system

## **Objectives:**

- High throughput: four data sets are recorded simultaneously
- All data sets can be processed simultaneously by SIMREF 2.4 [1]: forget merging
- **■** Analyser diffractometer adjustable for 0.5  $\leq \lambda \leq$  1.8 Å
- High angular resolution
- Compact unit
- Simple and efficient mechanical Control: one motor and encoder for the 4 analyser axes one motor and encoder for the 4 detector axes
- Design adapted for: flat specimens and capillaries the cryostat and vacuum chamber at B2

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## **References:**

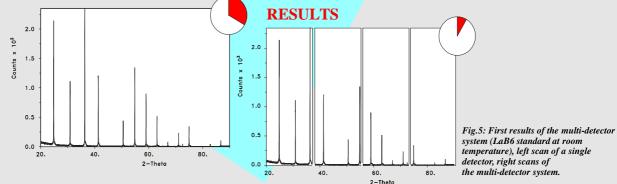
[1] H.Ritter, http://www.uni-tuebingen.de/uni/pki/simref/simref.html, (1998)



Fig.3:

REALISATION

Fig.4: Status of the multi-detector system as mounted at beamline B2





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