

USO DE GRANDES INSTALACIONES CIENTÍFICAS MUNDIALES PARA CARACTERIZACIÓN DE MATERIALES. REACTORES NUCLEARES, RADIACIÓN SINCROTRÓN Y FUENTES NEUTRÓNICAS DE IMPACTO.

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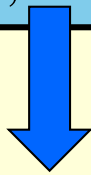
Volume techniques

Penetration power

	CuKα - 1,54 Å	neutrons - 1,00 Å	s-ray - 0,124 Å	s-ray - 0,062 Å
Mg	0,0140 cm	6,10 cm	3,4 cm	4,2 cm
Al	0,0053 cm	7,67 cm	1,5 cm	2,7 cm
Cu	0,0015 cm	0,85 cm	0,2 cm	0,5 cm
Ti	0,0011 cm	1,61 cm	0,6 cm	1,3 cm
Pb	0,0003 cm	2,10 cm	0,03 cm	0,04 cm



D5000



TEX-2



BW 5
Petra III

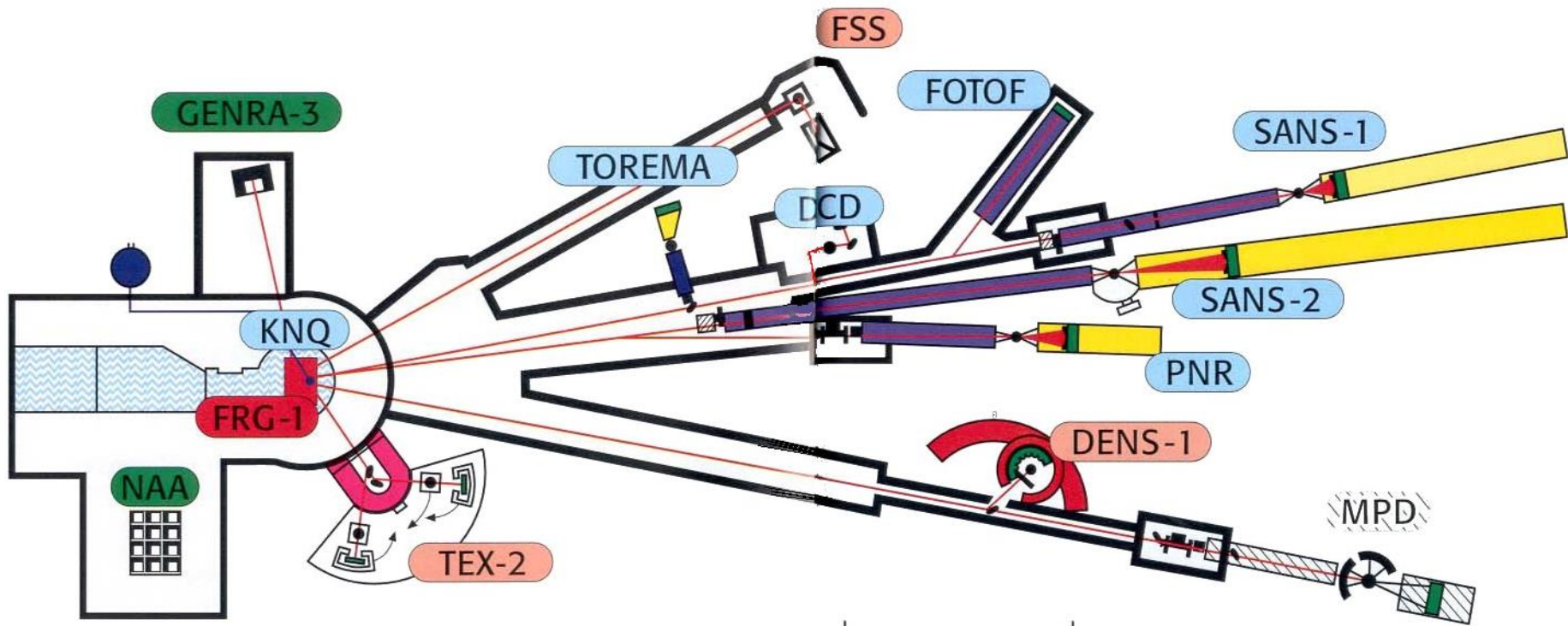


Harwi II

TEX-1 was running for some years 1984 - 1987

Geesthacht TEX-2 texture facility

Facilities at the Research Reactor FRG-1

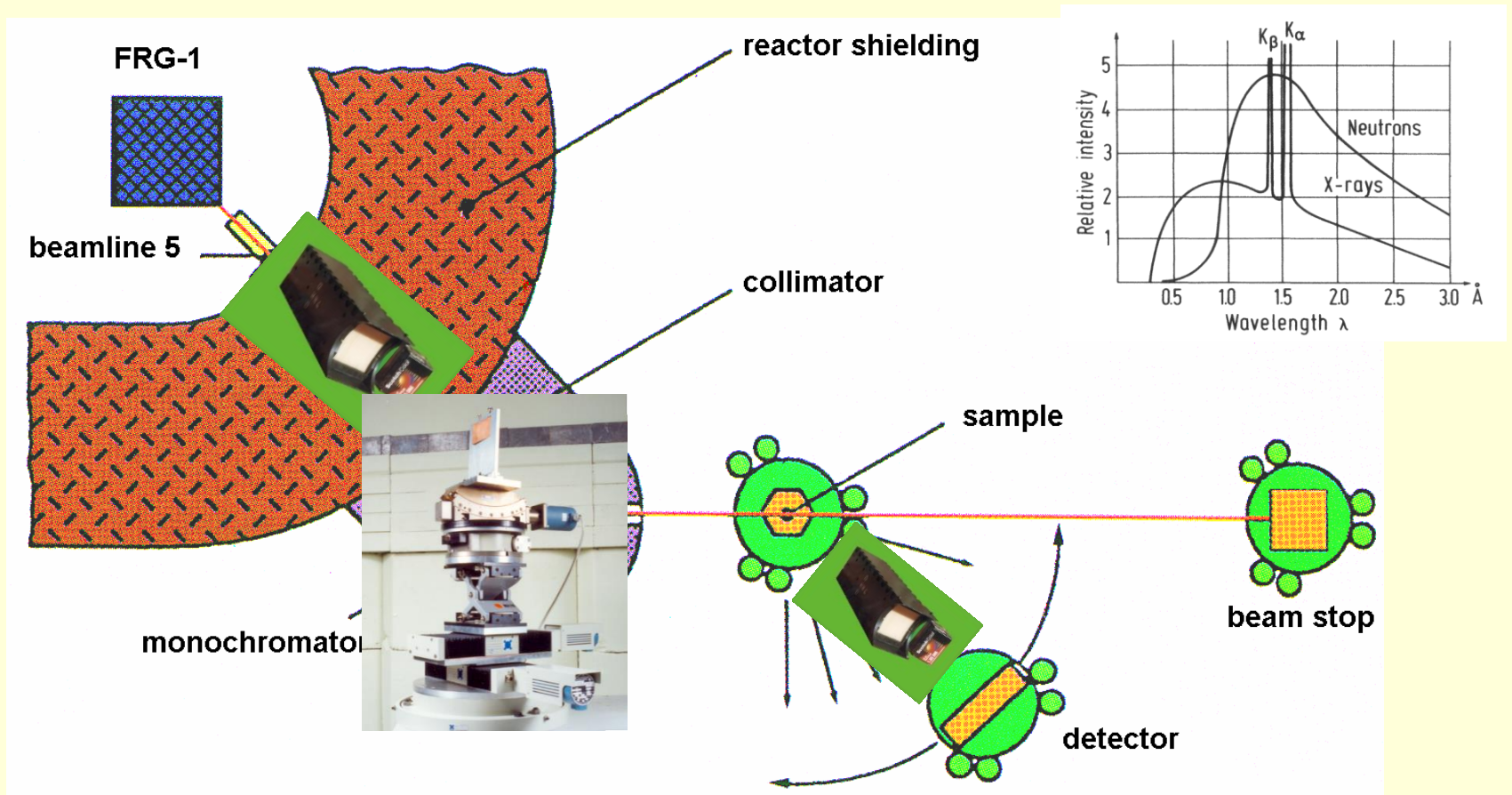


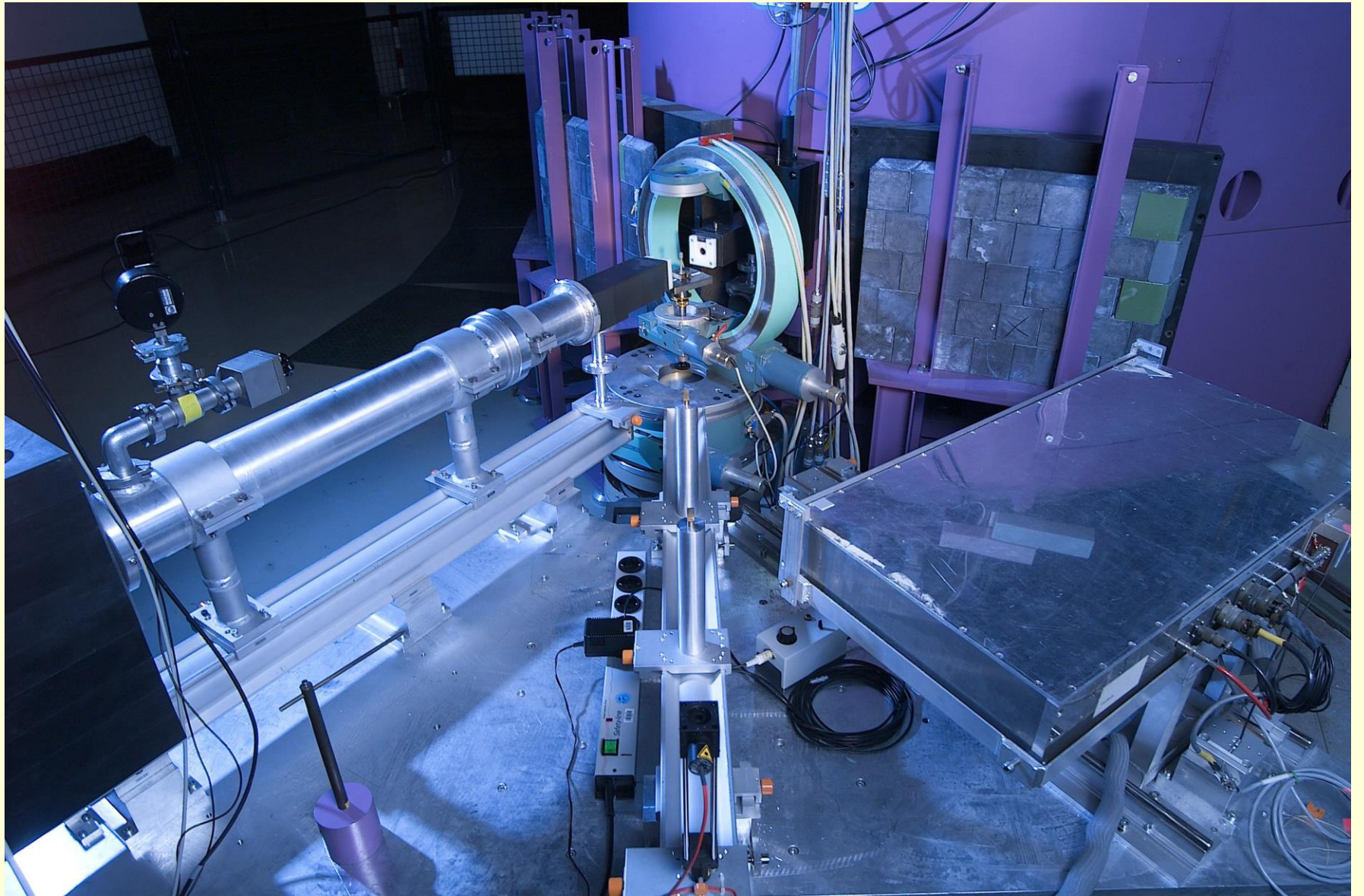
Tex-2 started 1990
Decommissioned July 2010

- Scattering experiments using cold neutrons
- Scattering experiments using thermal neutrons
- Facilities for environmental research and radiography
- Experiments in preparation

Fig. 1: Instruments and neutron guides of the research reactor FRG-1

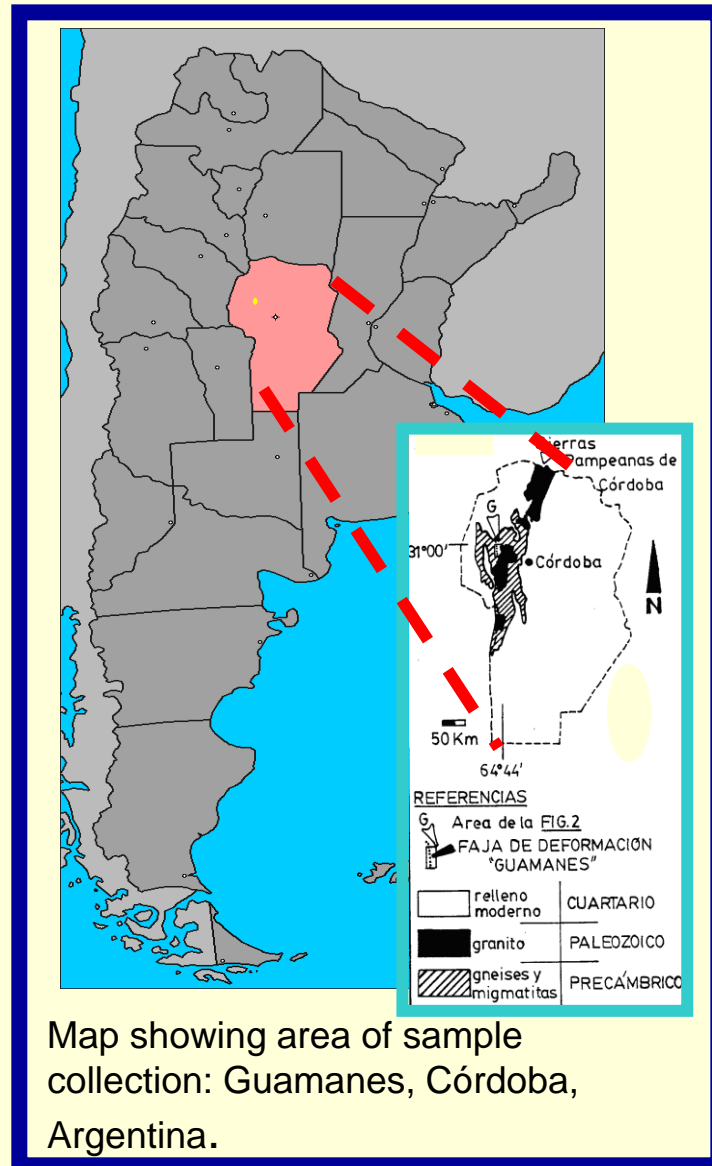
TEX-2 at the FRG-1 (GKSS-Research Center – Geesthacht)



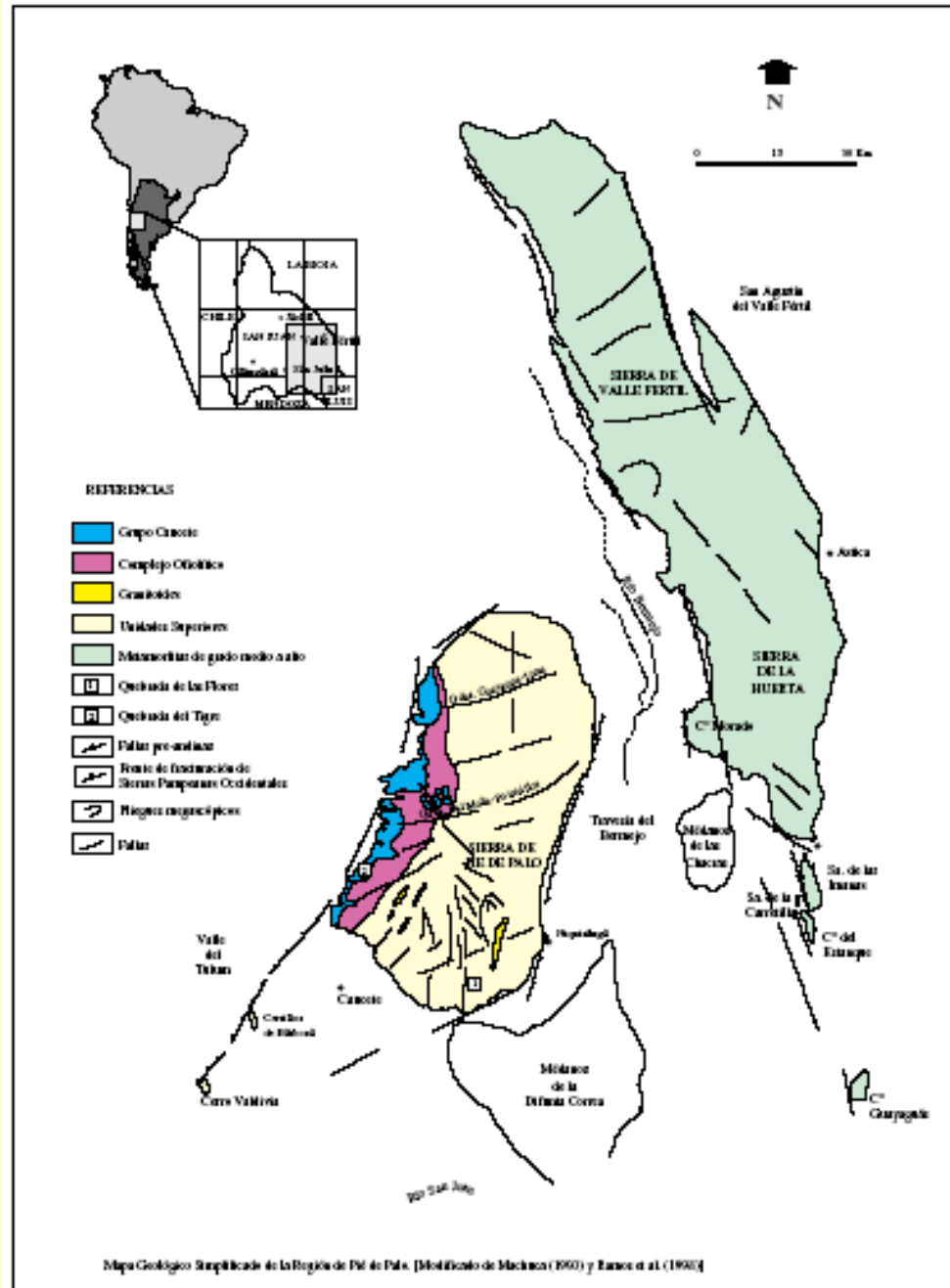
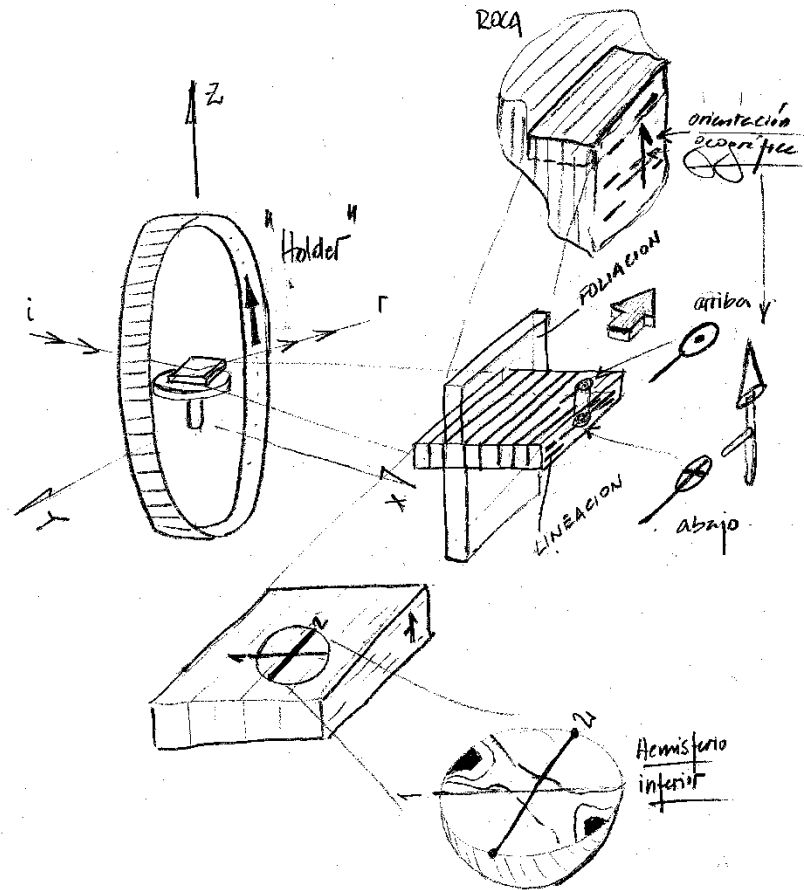


Geological Quartz Sample from Córdoba

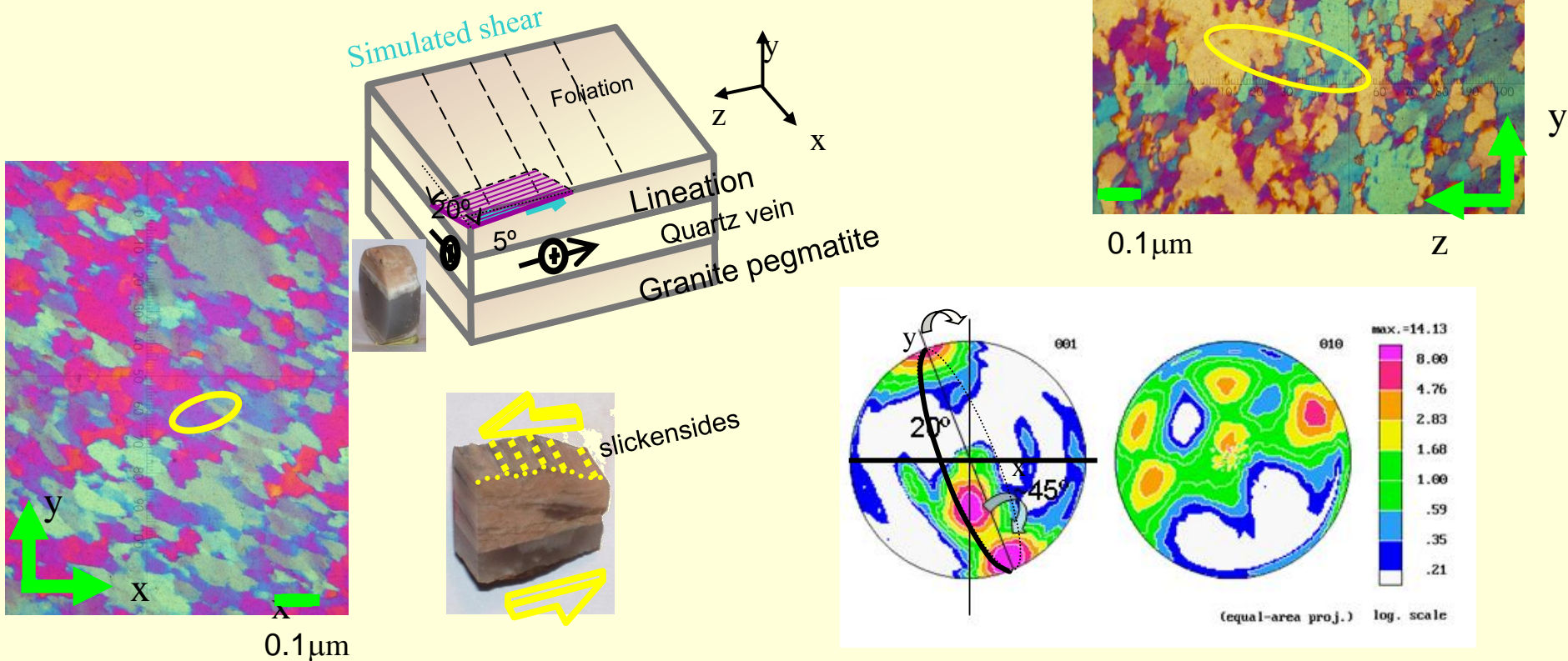
Geology



Geology



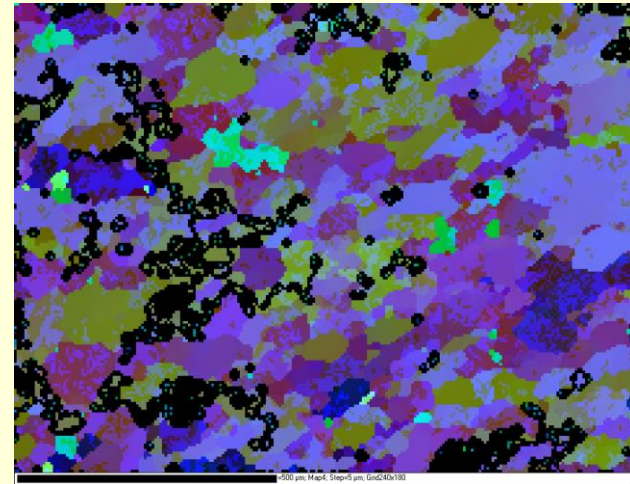
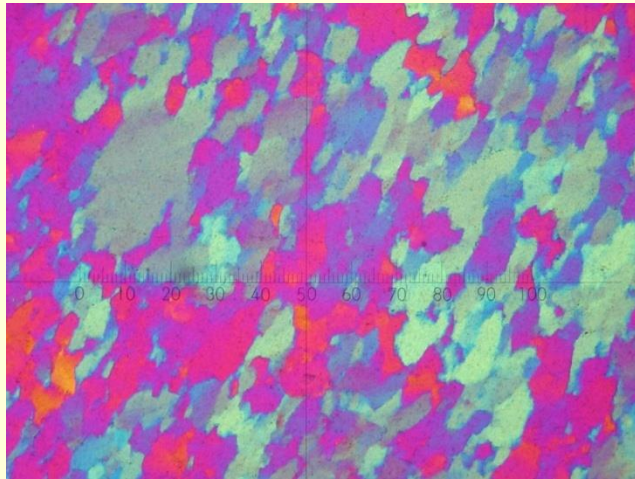
Geological Quartz Sample from Córdoba



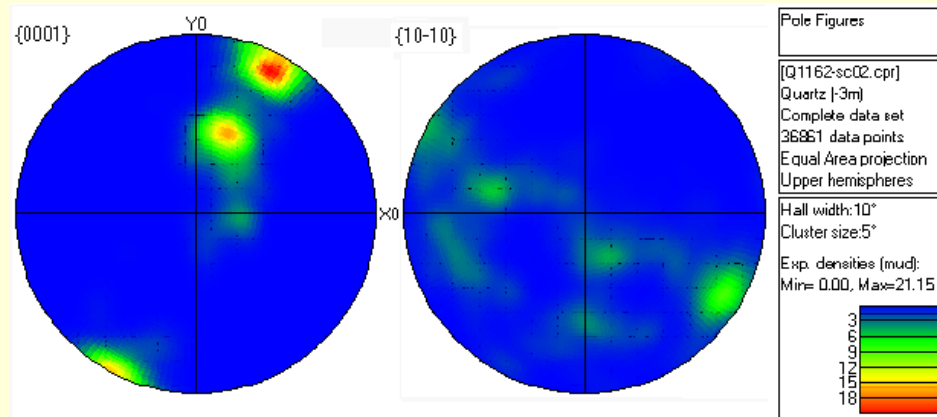
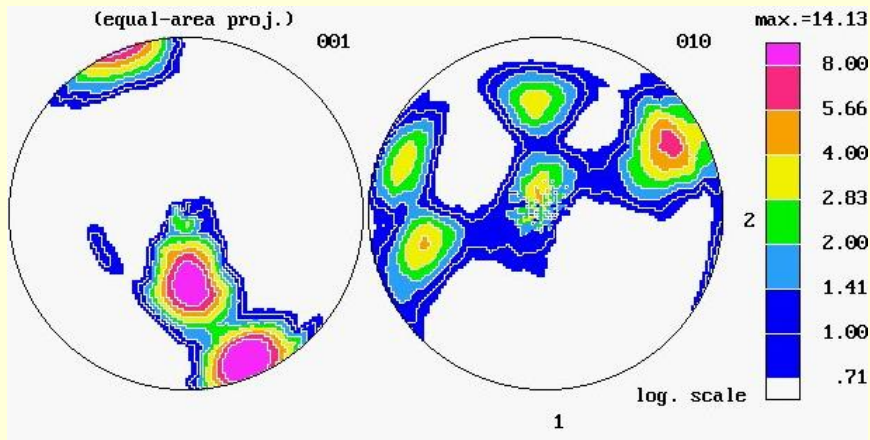
Texture was measured by X ray (Rosario) and neutron (Germany) diffraction but they could also be.....

.....measured by EBSD

Old optical method texture determination



EBSD (LaB6, Zeiss instrument, France, HKL)

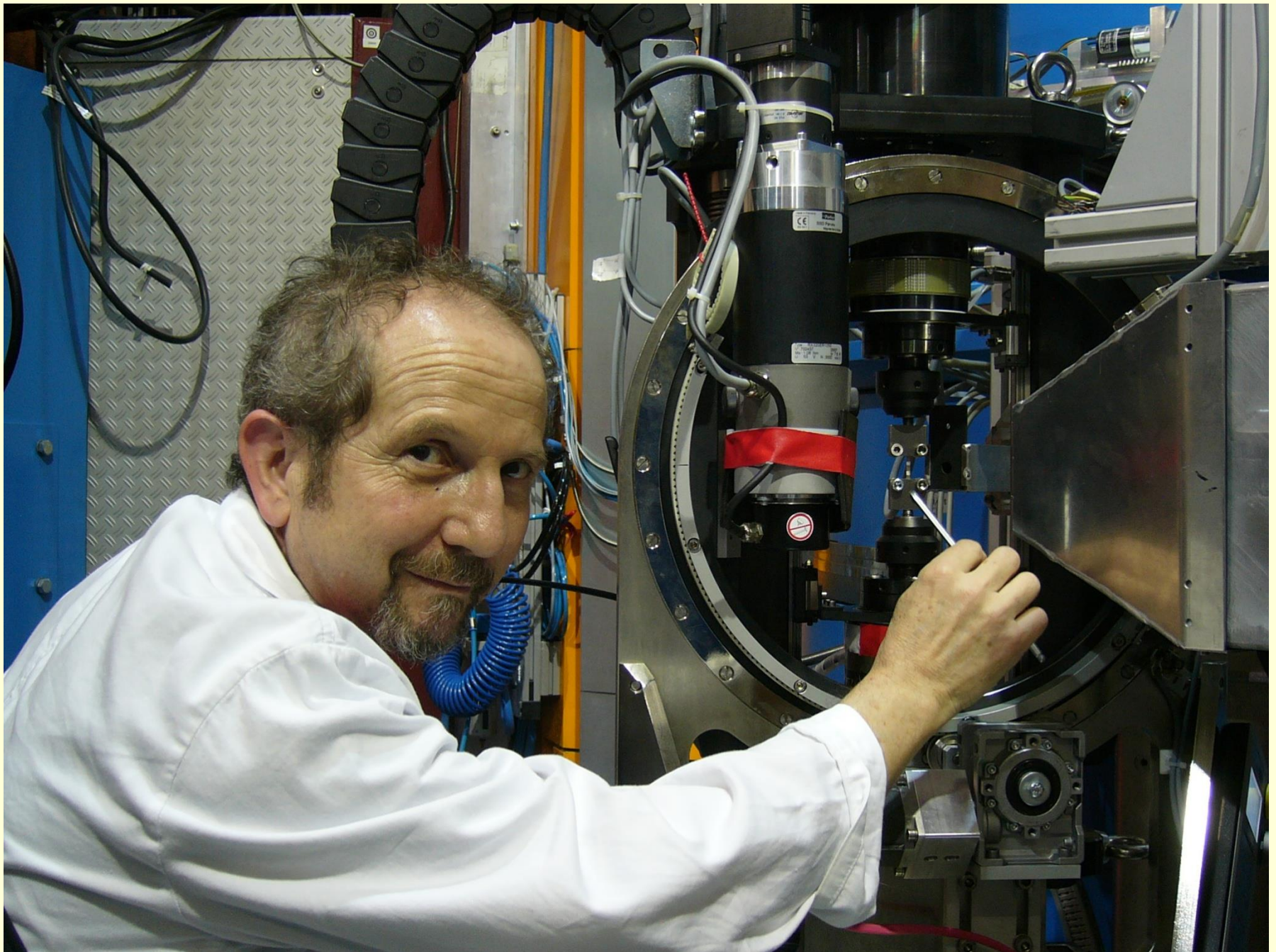


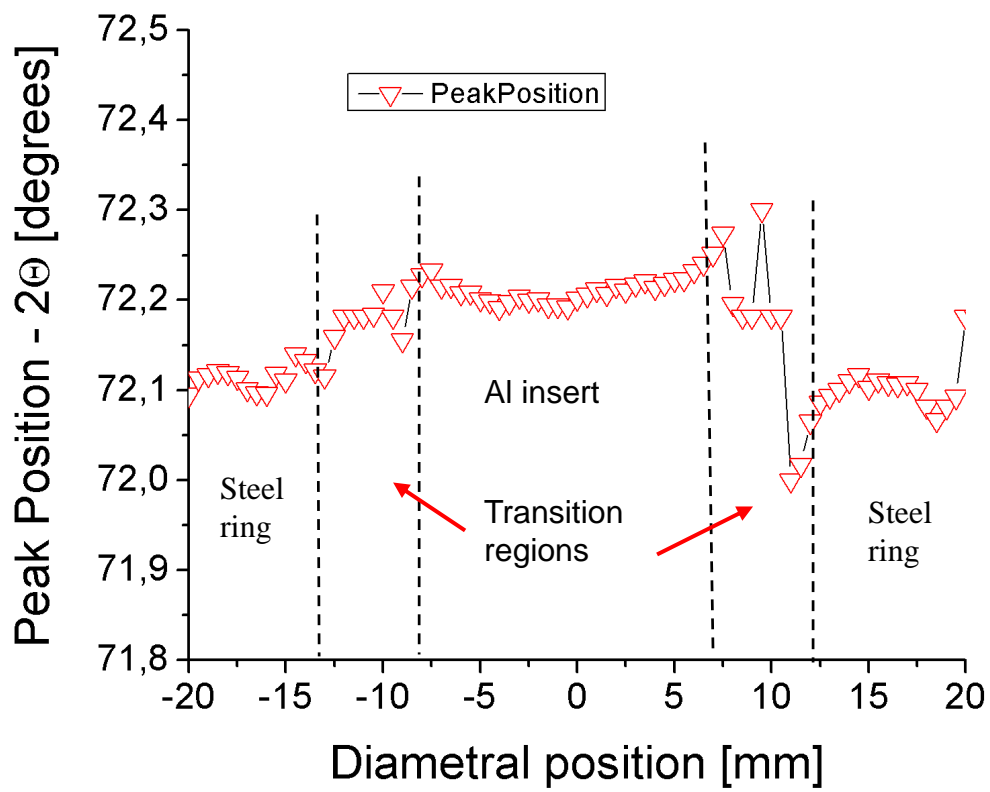
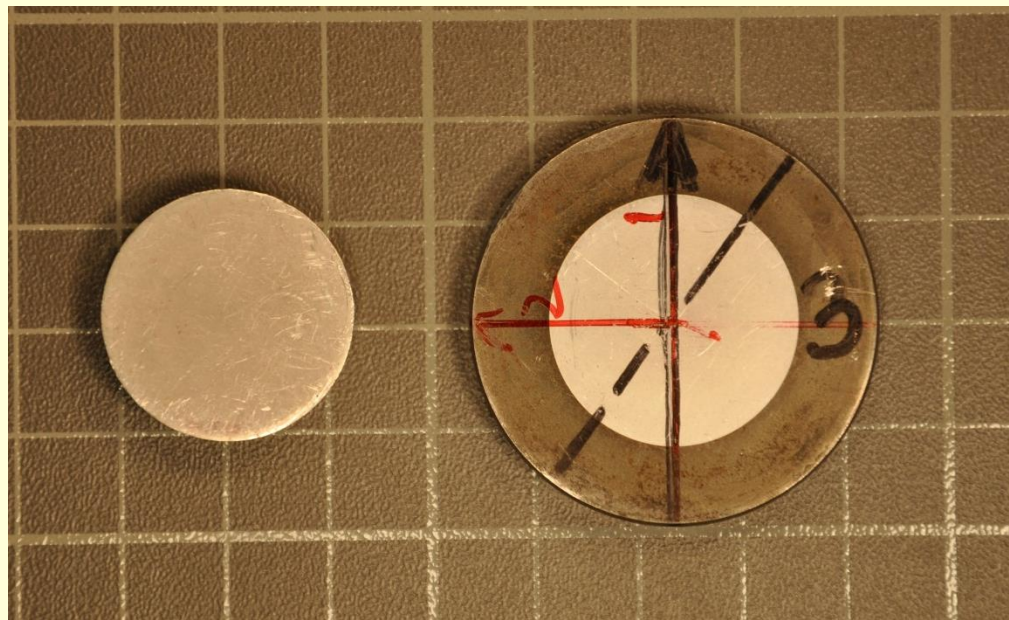
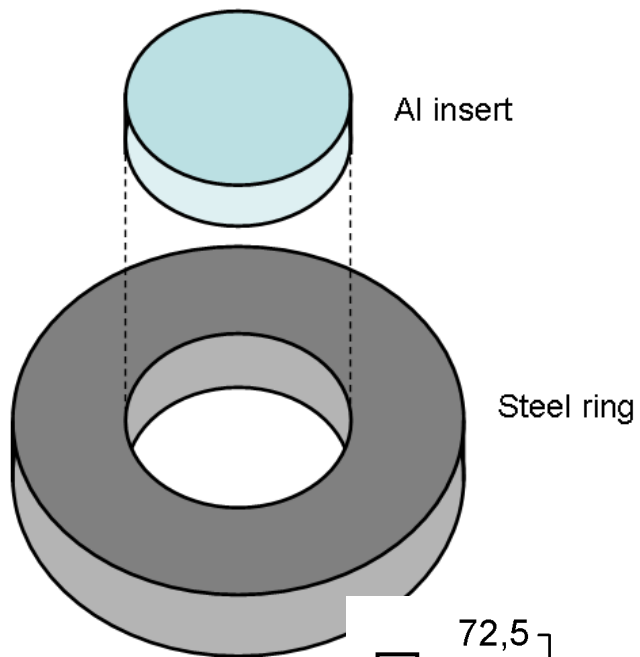
Pole Figures
[Q1162-sc02.cpr]
Quartz [-3m]
Complete data set
36861 data points
Equal Area projection
Upper hemispheres
Hall width: 10°
Cluster size: 5°
Exp. densities (mud):
Min= 0.00, Max=21.15

Neutron Diffraction

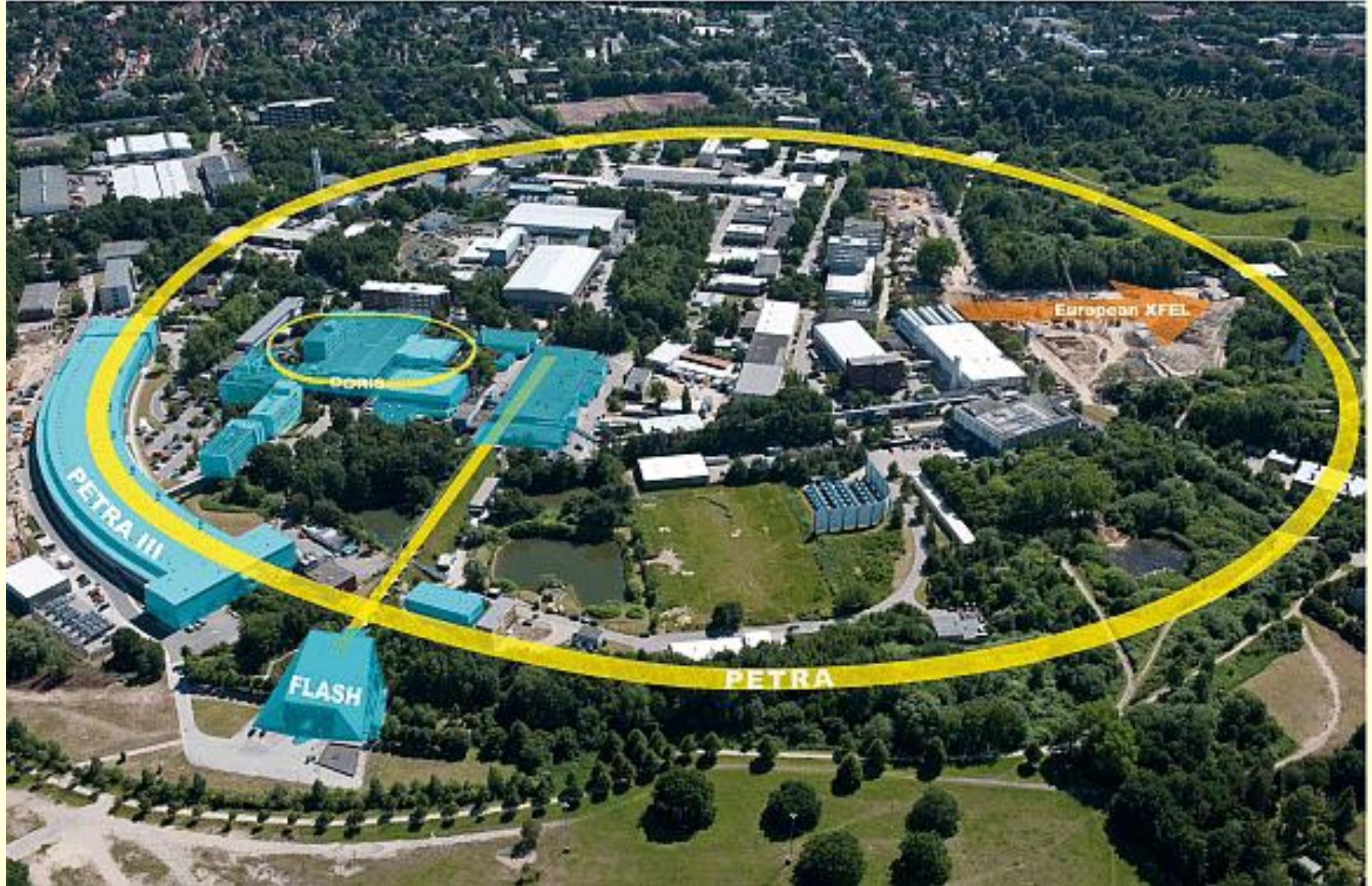


Forschungsneutronenquelle Heinz Maier-Leibnitz





DESY - HASYLAB







PETRA III.



Como opciones en el ámbito de
AUGM contamos con:

Sirius, Campinas, Brasil, 2018.

RA-10, Ezeiza, 2020

Muchas gracias