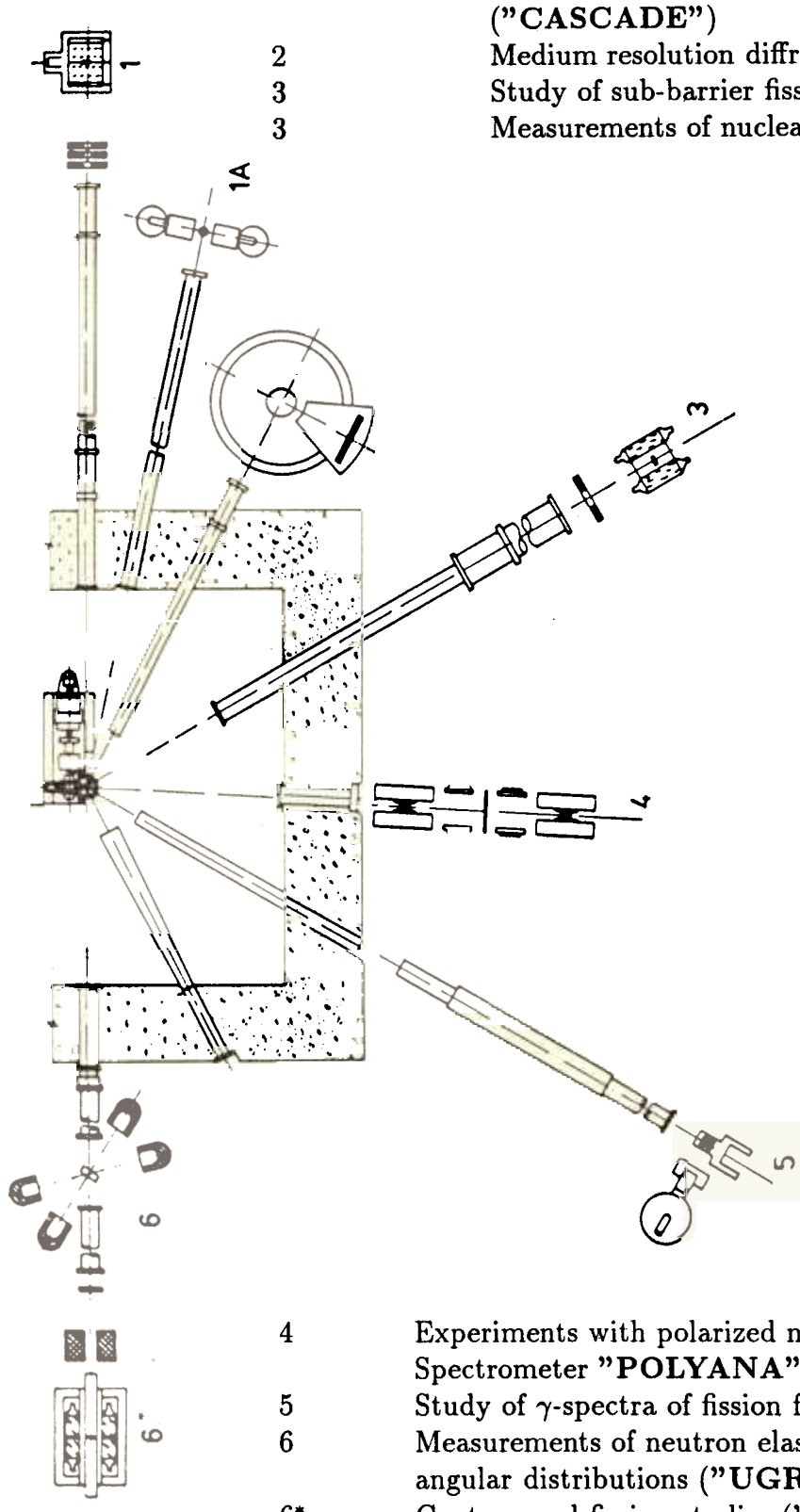
Schematical layout of IBR-30+LUE-40 experimental facilities

Beam line	Spectrometer
1	Study of (n,α) and (n,p) reactions (**"PARKS"**)
1A	Study of two-quanta decay of compound states (**"CASCADE"**)
2	Medium resolution diffractometer **"DN-3"**
3	Study of sub-barrier fission (**"DRENIS"**)
3	Measurements of nuclear physics constants



4	Experiments with polarized neutrons and nuclei Spectrometer **"POLYANA"**
5	Study of γ-spectra of fission fragments (**"DELRENE"**)
6	Measurements of neutron elastic scattering angular distributions (**"UGRA"**)
6*	Capture and fission studies (**"ROMASHKA"**)

Neutron Spectrometers at IBR-30+LUE-40 Booster

Spectrometer	Beam No.	Flight path, m	Exploratory range
Spectrometers for Nuclear Physics			
Study of (n,α)- and (n,p)-channels of decay on stable and radioactive nuclear targets (**"PARKS"**)	1	30–85	1–10^4 eV
Study of two-quanta decay of compound states (**"CASCADE"**)	1A	20	0.02–0.2 eV
Measurements of nuclear physics constants	3	120	1–10^4 eV
Study of sub-barrier fission (**"DRENIS"**)	3	60	1–100 keV
Experiments with polarized neutrons and nuclei (**"POLYANA"**)	4	60	0.1–10^4 eV
Study of γ-spectra of fission fragments (**"DELRENE"**)	5	60	0.1–100 eV
Measurements of neutron elastic scattering angular distributions (**"UGRA"**)	6	250	0.1–400 keV
Measurements of γ-multiplicity in the capture and fission processes (**"Romashka"**)	6*	500	0.1–100 keV
Spectrometers for Condensed Matter Research			
"DN-3" Medium resolution diffractometer. Structure of single crystals and powders in extreme conditions (pressure, temperature)	2	flux on the sample 8×10^5 n/cm^2/s	λ=0.2–6Å Δd/d=0.008 at d=1Å