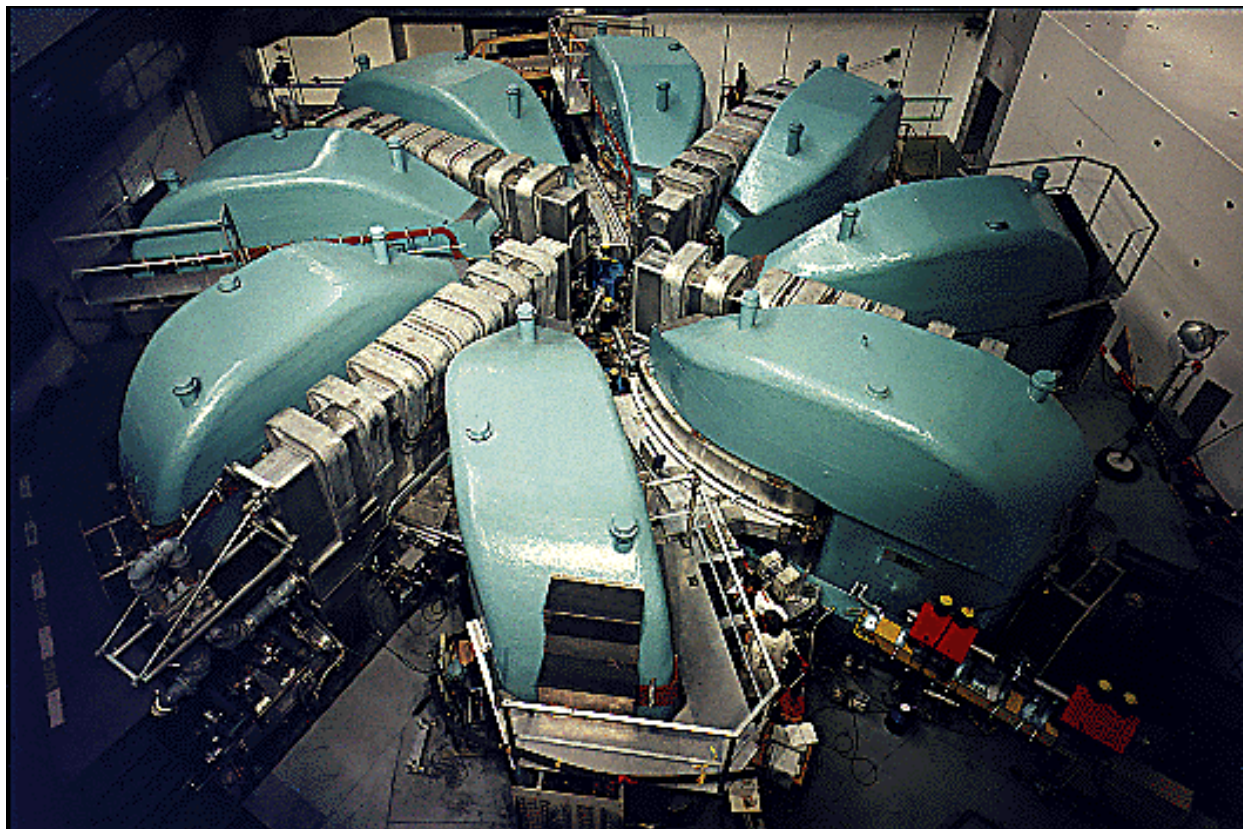


PSI Muon Beams - as seen by a non-expert

- “Proton driver”: 590 MeV cyclotron, 1.6 mA, ~ 1 MW



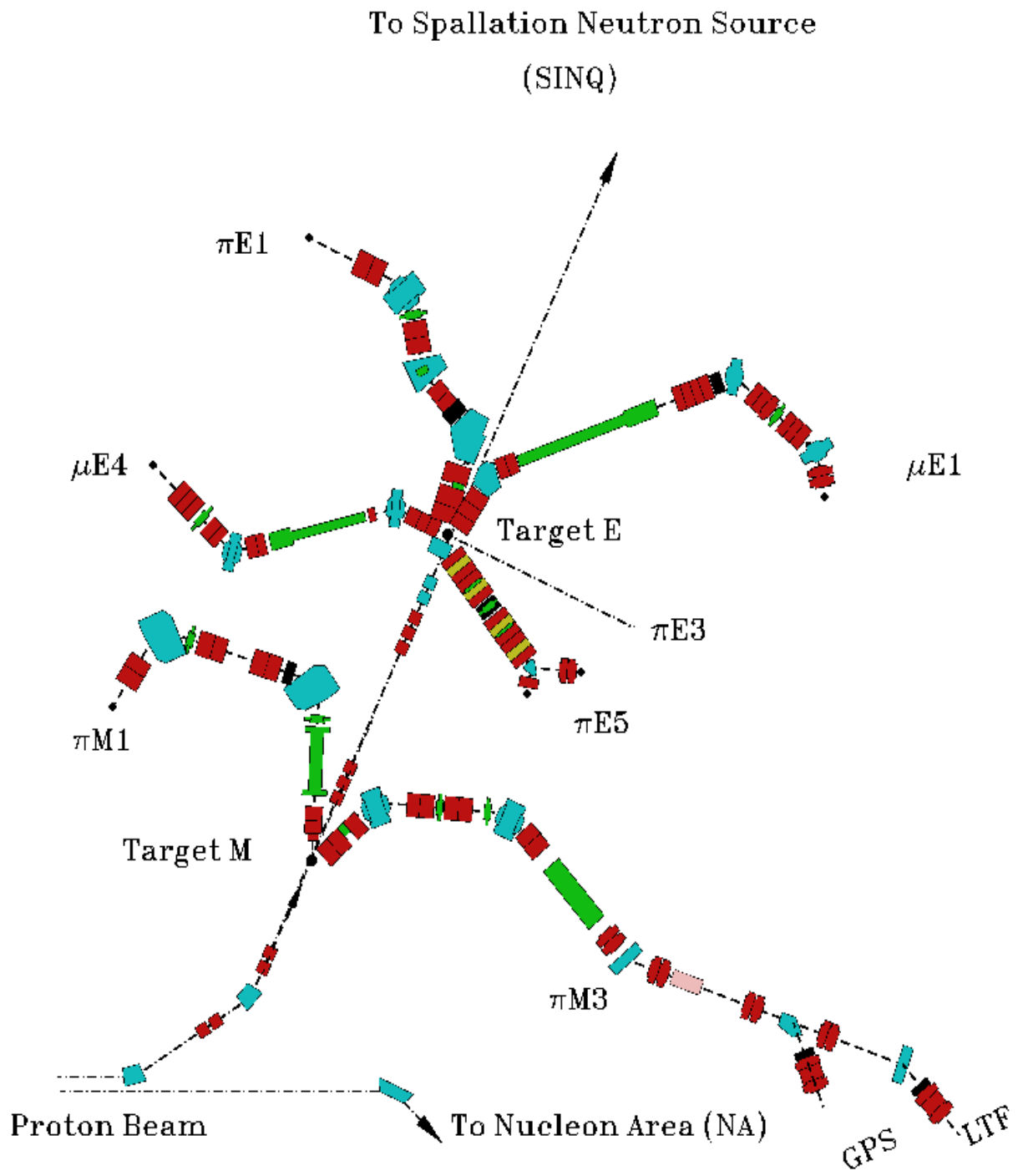
- Time structure: CW - 19.75ns between pulses,
 ~ 0.3 ns pulse length

PSI experimental hall



t.kramer 10-99

Pion and muon beams



Beam parameters

Beamline	Type	Momentum range (MeV/c)	Intensity (/s)	Intensity (/pulse)	Momentum bite (%)	Space (m)
π M1	π	100-500	10^6	0.02	2.9	7
π M3	μ	5-35	3×10^6	0.06	1.0	4
π E1	π/μ	10-500	$10^7(?)$	0.2	8.0	9
π E3	π/μ	10-250	10^6	0.02	3.4	6
π E5	π/μ	10-120	10^9	20.0	10.0	5
μ E1	μ	85-125	10^7	0.2	1.0	4
μ E4	μ	30-100	2×10^7	0.4	3.0	4