



# PNPI 1 GeV PROTON SYNCHROCYCLOTRON

GATCHINA, LENINGRAD DISTRICT, RUSSIA

## Beam lines

P1,P2 -Protons 1 GeV

P3-Protons 0.2-1 GeV

$\pi$ 1-pions 0.45-0.7 GeV/c

$\pi$ 2-pions 0.1-0.3 GeV/c

$\mu$ - muons 0-0.3 GeV/c

Repetition rate – 50 Hz

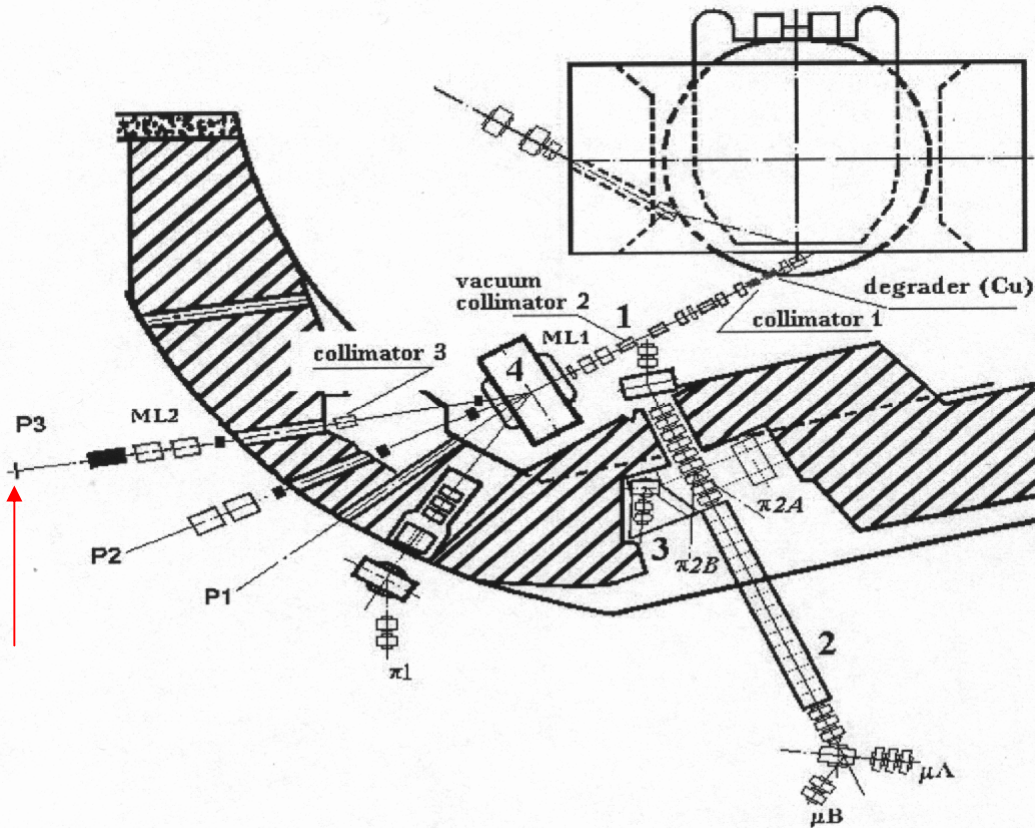
Macro duty cycle – 50%

**Beam spot - 0.5-50 cm**

## Varied energy proton beam

(beam line P3)

Energy MeV	Intensity $s^{-1}$	DP/P %
200	6.1E6	7.3
400	3.2E7	3.6
600	8.6E7	2.0
800	8.7E8	1.4
1000	1E12	1.0



**WWW.PNPI.SPB.RU**



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**Operation of the accelerator – 2000 hours/year (3-4 runs)**

**Time reservation - 2 months before**

**Cancelation policy - according to agreement conditions**

## **Beam diagnostics**

- shape - MultyWire Proportional Chambers, small SSD
- intensity - on-line beam monitoring by calibrated ionization chamber
  - absolute calibration by induced activity method (off-line)

**3D-moving table with special frame for target positioning**

**Price - 250 EURO/HOUR**


**Minimum time quota – 24 hours (including 12 hours for preparation)**

## **Logistics**

 - 30 km from Saint Petersburg international airport Pulkovo

 - 1,5 km from hotel Akademicheskaya

**Contact person - German Riabov**

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