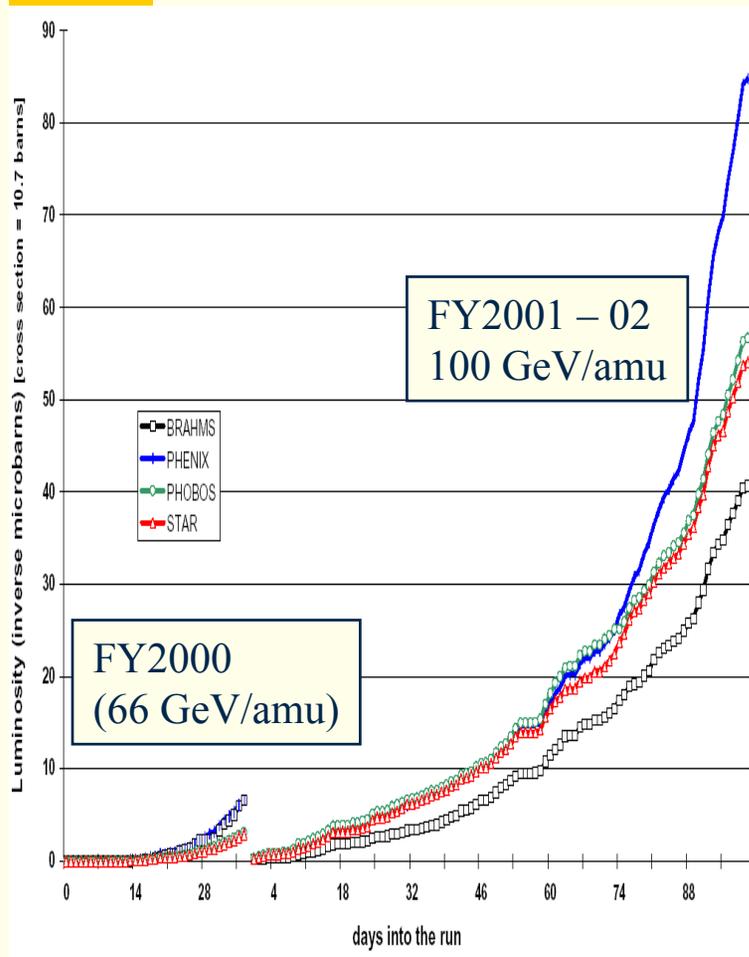


Benefits of Beam Experiments

Fulvia Pilat



Luminosity



Beam Experiments →

Machine Development →

Machine Production (Luminosity)

Only way to sustain an exponential increase
(Δt linear, limited, expensive)

Beam Experiments:

- ☒ Test bench for new beam techniques/ideas
- ☒ Accelerator physics (new DPB publication policy, PHD theses)
- ☒ Inter-lab collaboration
- ☒ Personnel motivation (physicists, engineers, operators)

Beam Experiments 2001

- # Good program and results (beam experiments session: review & plans)
- # Scheduling: a challenge

Date	Scheduled time GOLD
Sep 26	4 h
Oct 3	8 h
Oct 17	12 h
Oct 31	12 h
Nov 7	10 h
Nov 15	12 h (3 h beam time)
Nov 19	12 h

Date	Scheduled time PP
Dec 27	6 h
Jan 3	6 h
Jan 16	8 h

No beam studies during machine setup time (~3 weeks)
12h/ week - 5 weeks production
Scheduled: **20 h** Planned: **60 h**

(Jun, Jul, Aug – no beam studies)
12 h/week- 12 weeks production run
Scheduled: **70h** Planned: **144**

Beam Experiments 2003

- # **Plan/Review** for 2003 starts at the **Retreat**
- # **Analysis** (Model): **EPAC 2002**
- # Program in place by **beginning of Run 2003**

“**New Deal**” for 2003 beam experiments

- # keep format **1 BEx session/ week** (12h) + **Friday meeting**
- # **regular scheduling** for BEx activities
- # if necessary, compromise on the **length** of beam experiment sessions rather than **frequency**

