

SPS nonlinear optics at 26 GeV

G. Arduini, A. Faus-Golfe, N. Iida, G. Rumolo,
R. Tomas, F. Zimmermann, ...

- **nonlinear chromaticity** (tune vs rf frequency)
- **detuning with amplitude**
- **coupling strength & driving terms** around the ring for different radial steerings (*new!*)

MDs on 20.06.02 & 23.08.02

machine conditions:

xi knob settings: -0.02 (V), 0.06 (H)

octupole settings: -.875 (H), 0(V)

skew quadrupole setting: 0.0015

2e12 in 72 bunches, LHC beam

diagnostics: Q meter,
turn-by-turn BPMs

analysis:

R. Tomas (SUSSIX),

A. Faus-Golfe (MAD),

N. Iida (SAD)