π^0 summary (Preliminary)

selection criteria for π^0

- 50t fiducial
- Fully Contained
- 2 rings
- both e-like
- $85\text{MeV}/c^2 < M_{\gamma\gamma} < 215\text{MeV}/c^2$

selection criteria for μ

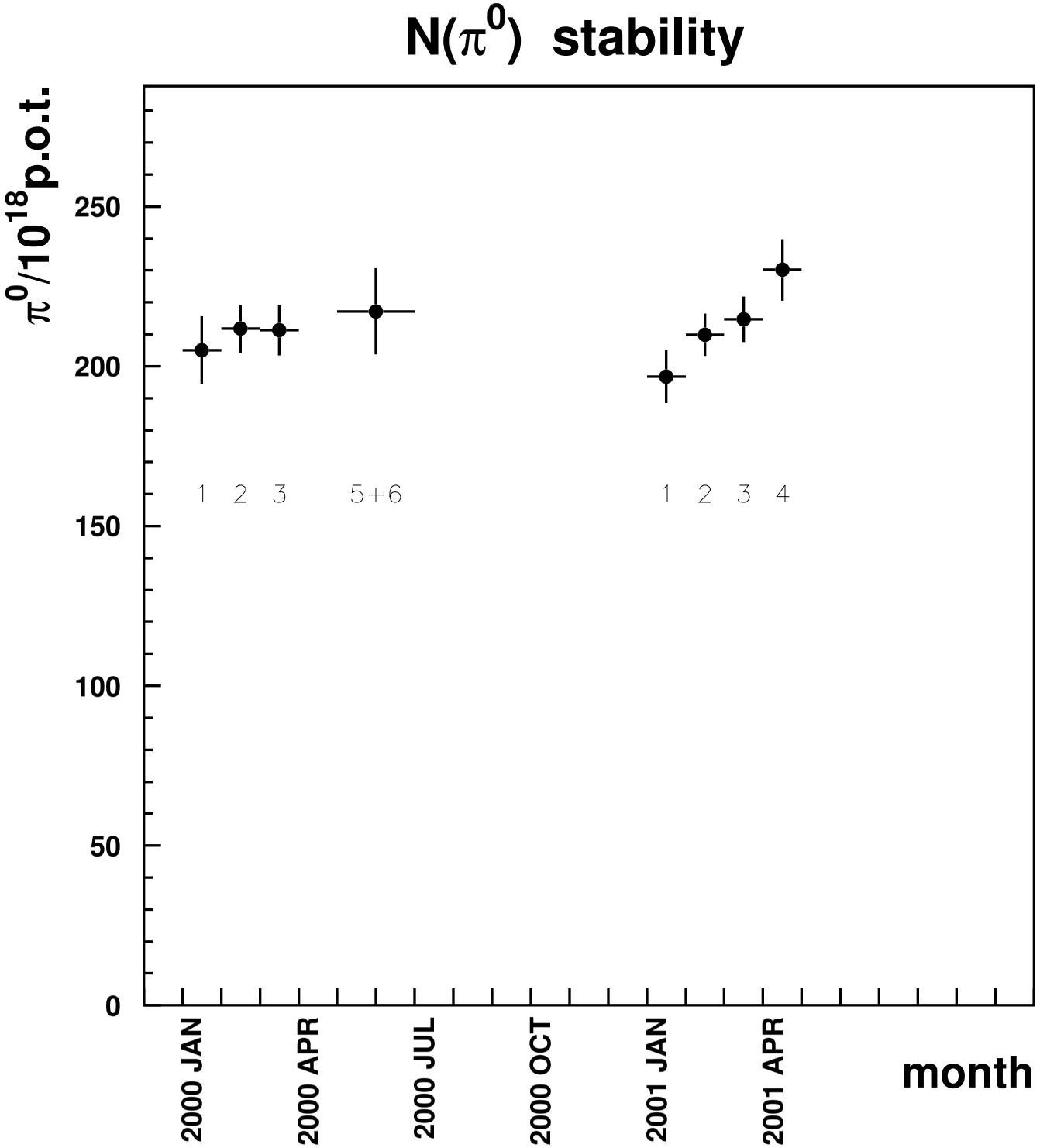
- 25t fiducial
- Fully Contained
- Evis > 30MeV
- 1 ring
- μ-like

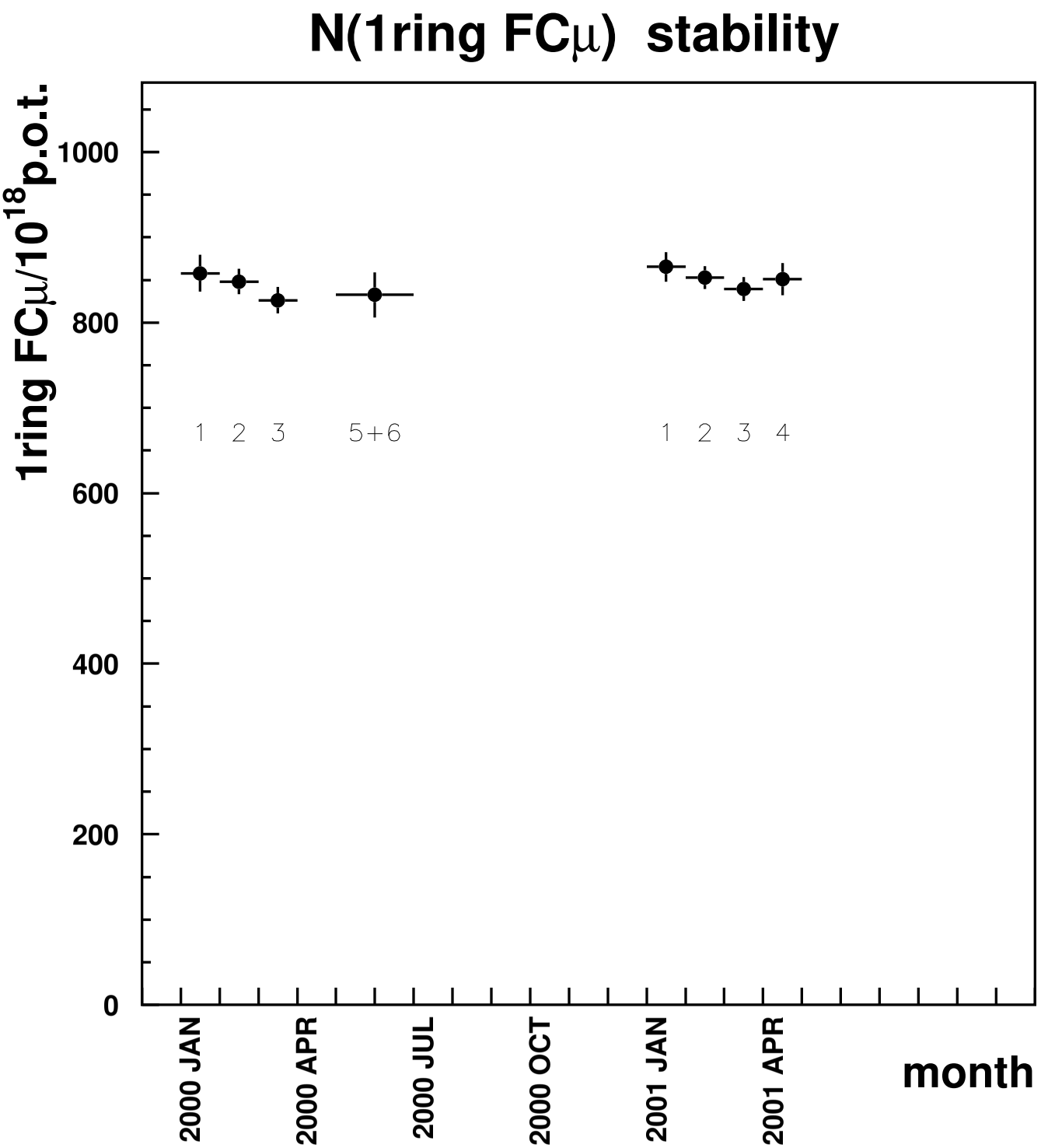
observed # of π^0 : 4120

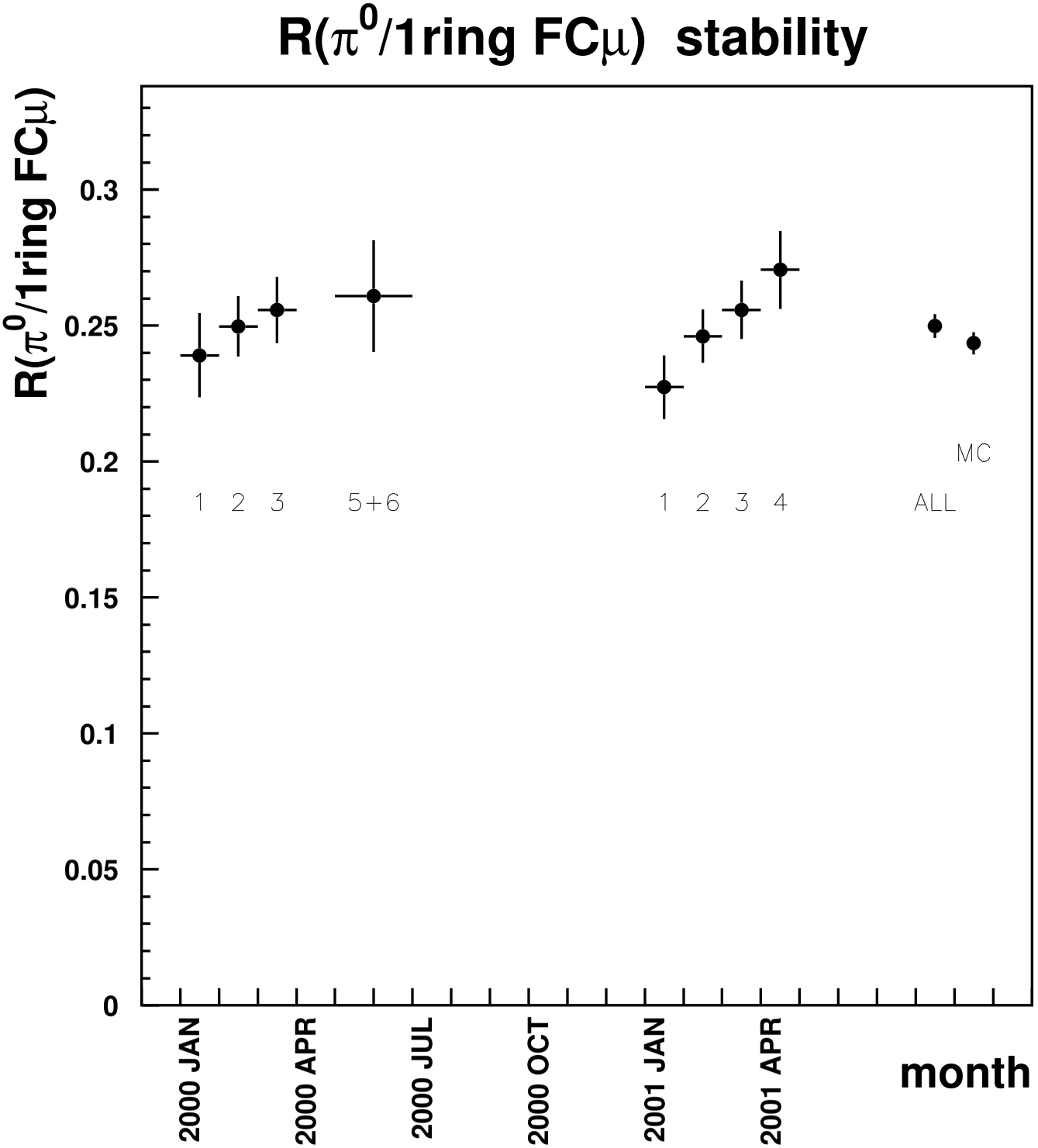
observed # of μ : 16487

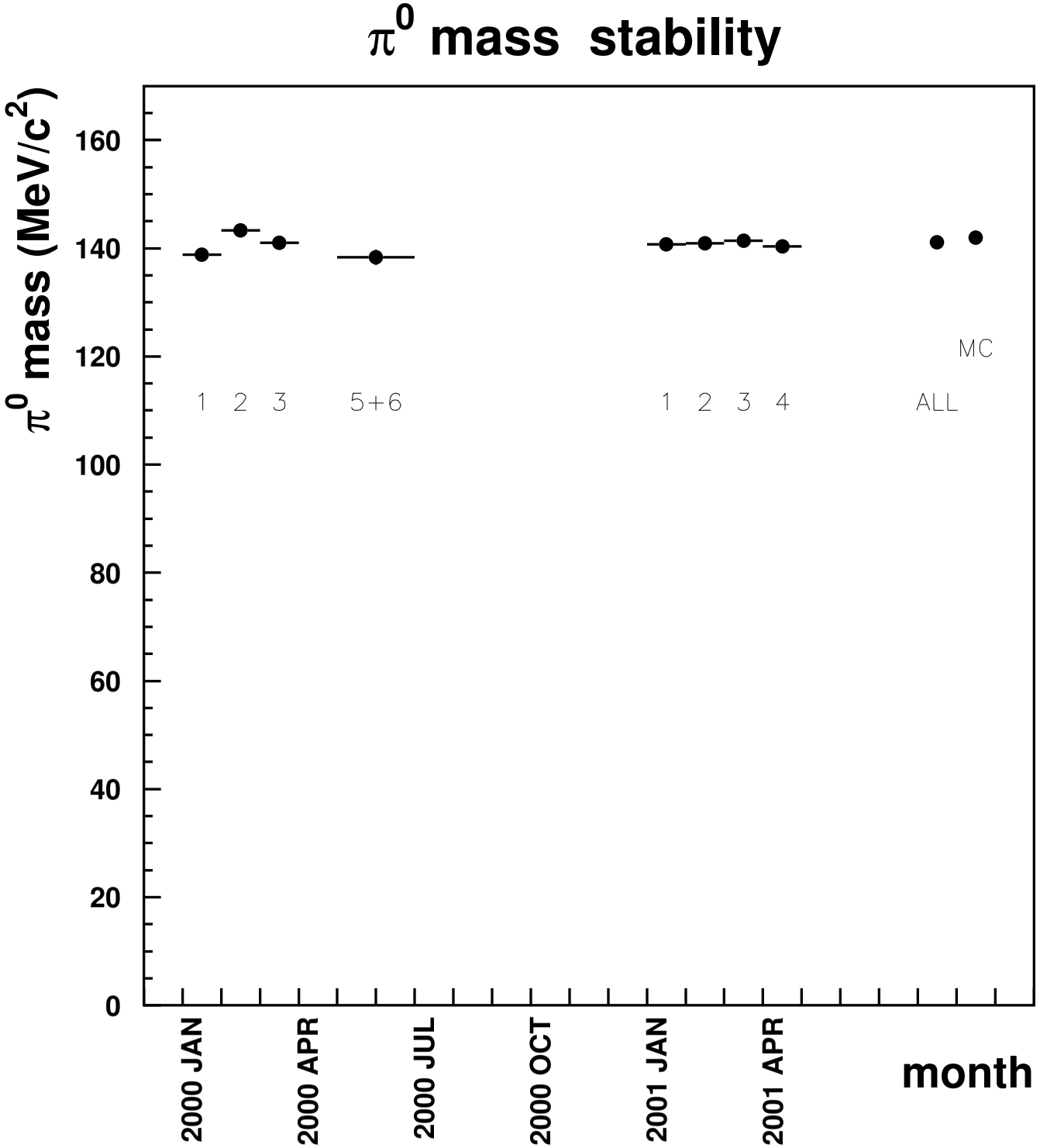
$$\frac{(\pi^0/\mu)_{DATA}}{(\pi^0/\mu)_{MC}} = 1.03 \pm 0.02 \pm 0.02 \pm 0.09$$

data stat. MC stat. sys.


N(π0) stability
π0/10^18 p.o.t.
250
200
150
100
50
0
1 2 3 5+6
1 2 3 4
2000 JAN
2000 APR
2000 JUL
2000 OCT
2001 JAN
2001 APR
month


N(1ring FCμ) stability
1ring FCμ/10^18 p.o.t.
1000
800
600
400
200
0
1 2 3
5+6
1 2 3 4
2000 JAN
2000 APR
2000 JUL
2000 OCT
2001 JAN
2001 APR
month


R(π0/1ring FCμ) stability
R(π0/1ring FCμ)
0.3
0.25
0.2
0.15
0.1
0.05
0
1 2 3
5+6
1 2 3 4
ALL
MC
2000 JAN
2000 APR
2000 JUL
2000 OCT
2001 JAN
2001 APR
month


π^0 mass stability
π^0 mass (MeV/c^2)
160
140
120
100
80
60
40
20
0
1 2 3
5+6
1 2 3 4
ALL
MC
2000 JAN
2000 APR
2000 JUL
2000 OCT
2001 JAN
2001 APR
month