

# Electron Cloud related studies on 7<sup>th</sup> Jan 2004

- No electron signal in the e- detectors
- Pressure at the e- detectors locations did not exceed  **$5 \times 10^{-9}$  Torr** (baked stainless steel).

<i>Bunch Pattern</i>	<i>Nb (Au ions/b)</i>	<i>Max. Total Intensity (Au ions)</i>	<i>Max. Pressure In the Ring (Torr)</i>	<i>Max. Pressure at e- detectors (Torr)</i>
(3, 1, 0)	$1 \times 10^9$	$52.5 \times 10^9$	$6 \times 10^{-6}$	$5 \times 10^{-9}$
(6, 1, 0)	$1 \times 10^9$	$55.3 \times 10^9$	$4 \times 10^{-8}$	$2 \times 10^{-9}$
(3, 1, 0)	$0.9 \times 10^9$	$60.1 \times 10^9$	$3 \times 10^{-7}$	$3 \times 10^{-9}$
(3, 1, 0)	$1 \times 10^9$	$41.6 \times 10^9$	$2 \times 10^{-7}$	$3 \times 10^{-9}$

↑  
**Bi8 (unbaked)**

↑  
**Bo2 (baked)**

Base Pressure at Bi8:  $7 \times 10^{-9}$  Torr

Base Pressure at Bo2:  $1 \times 10^{-9}$  Torr

**Conclusions:** Baking worked. But where is the limit?  
When NEG will be required?

