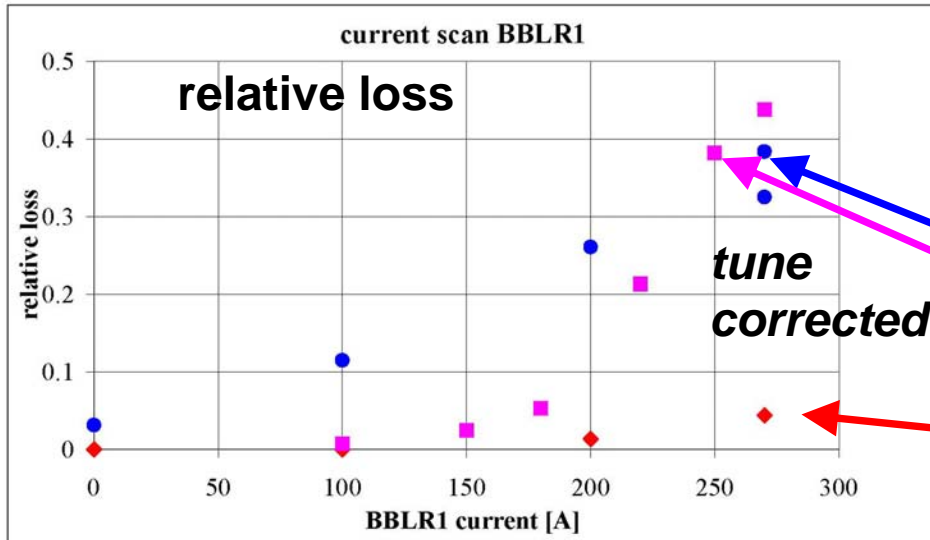


BBLR MD
24 July 2007
preliminary results

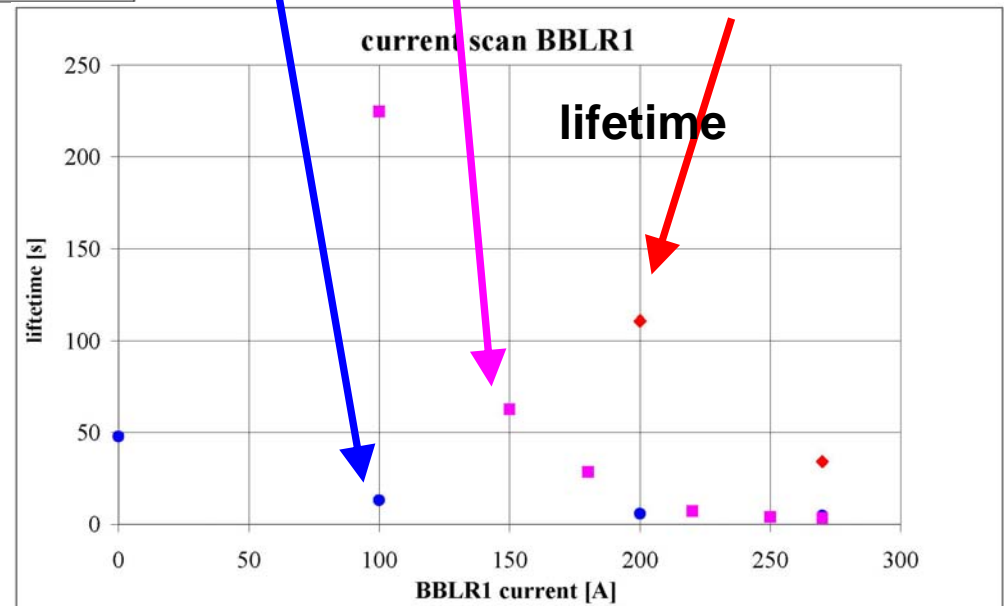
G. Burtin, R. Calaga, U. Dorda,
J.-P. Koutchouk, G. Sterbini, R. Tomas,
J. Wenninger, F. Zimmermann

current scans at 26 and 37 GeV/c

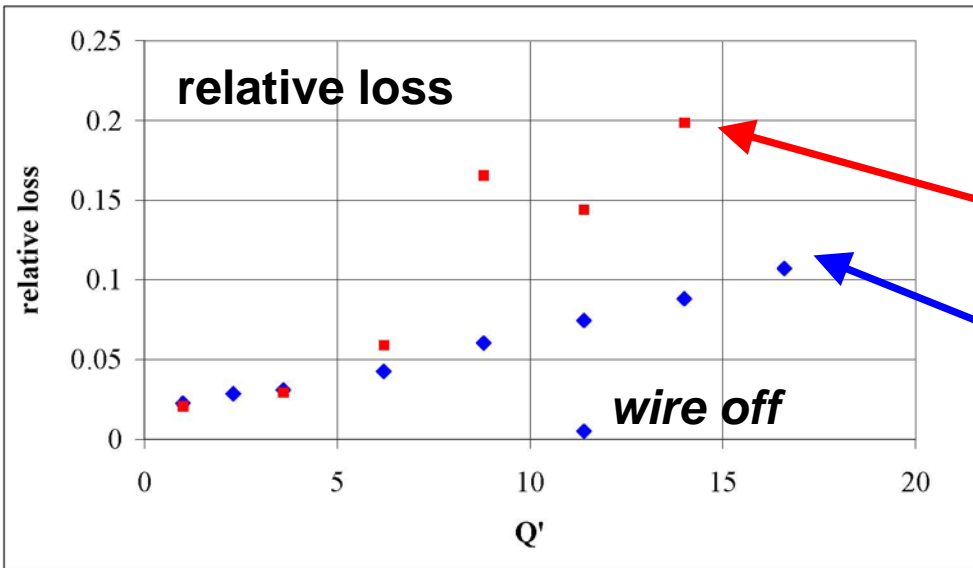


14 mm distance ~ 8.4 sigma at 26 GeV
10.0 sigma at 37 GeV
12 mm distance ~ 8.6 sigma at 37 GeV

37 GeV/c data hint at a current threshold, while 26 GeV/c data do not



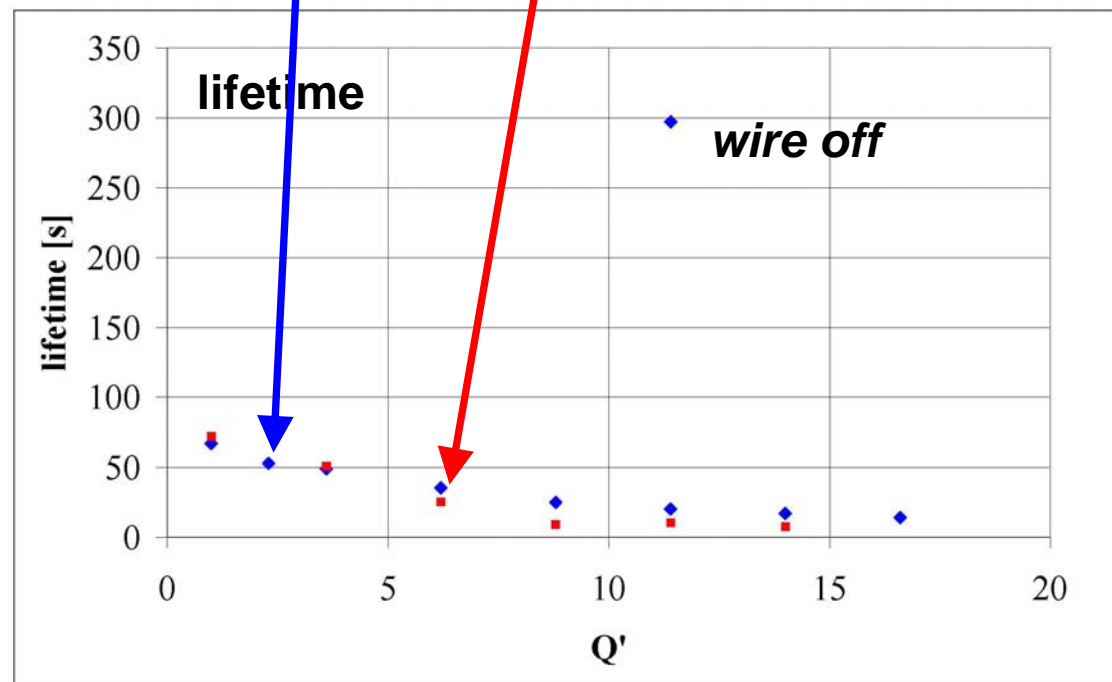
chromaticity scans 37 GeV/c



constant 9 mm distance
between beam and wire center
 $\sim 6.5\sigma$ at 37 GeV/c

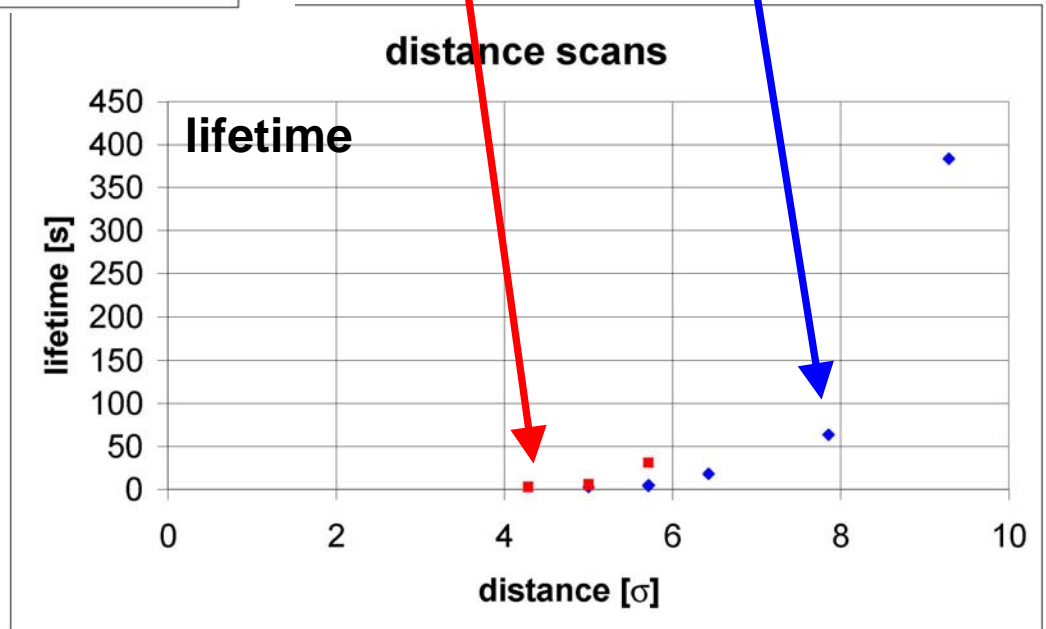
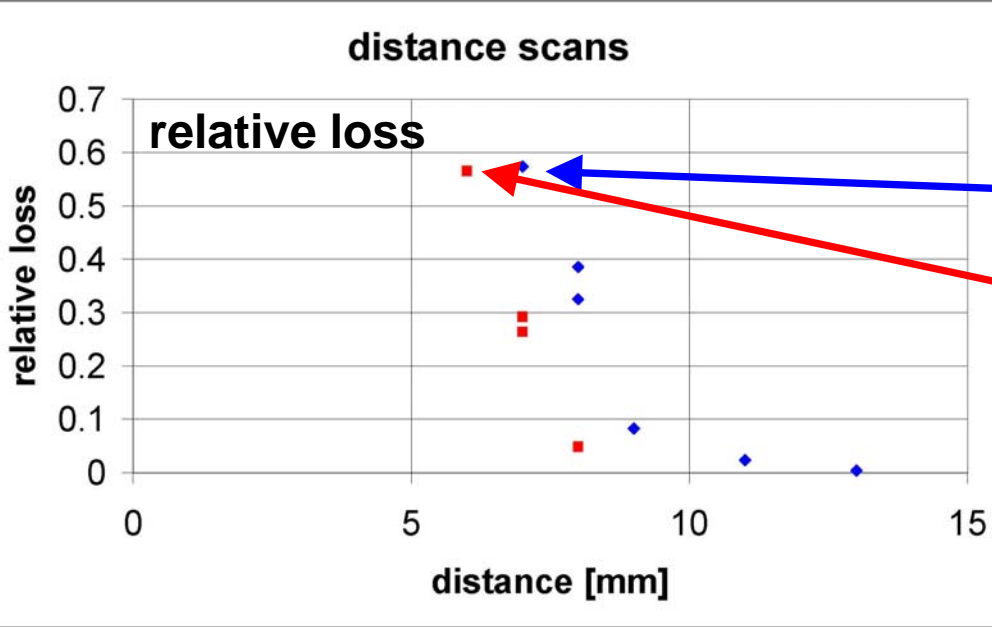
QV'

QH'



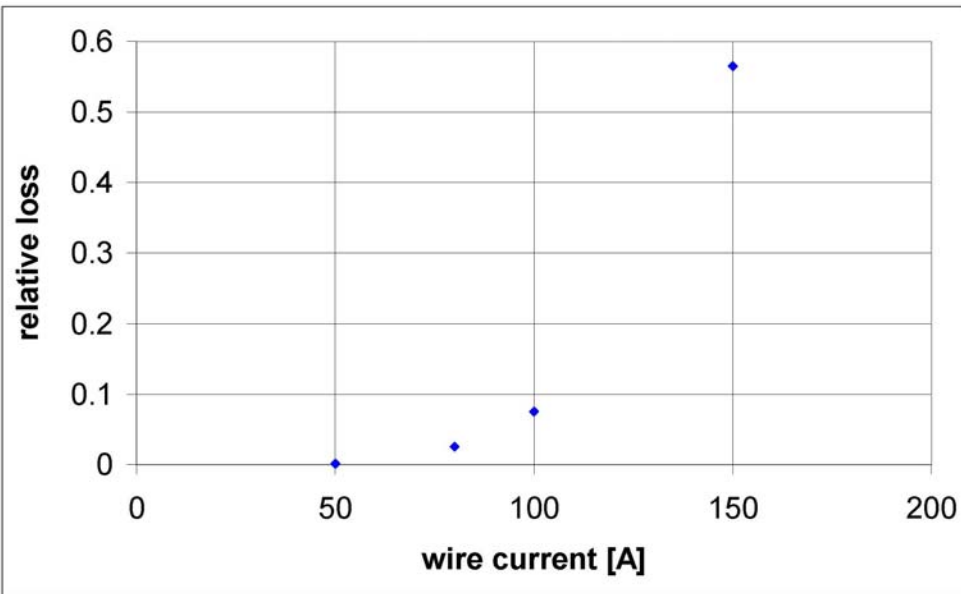
*nonzero chromaticity
together with wire
strongly reduces lifetime*

distance scans 37 GeV/c



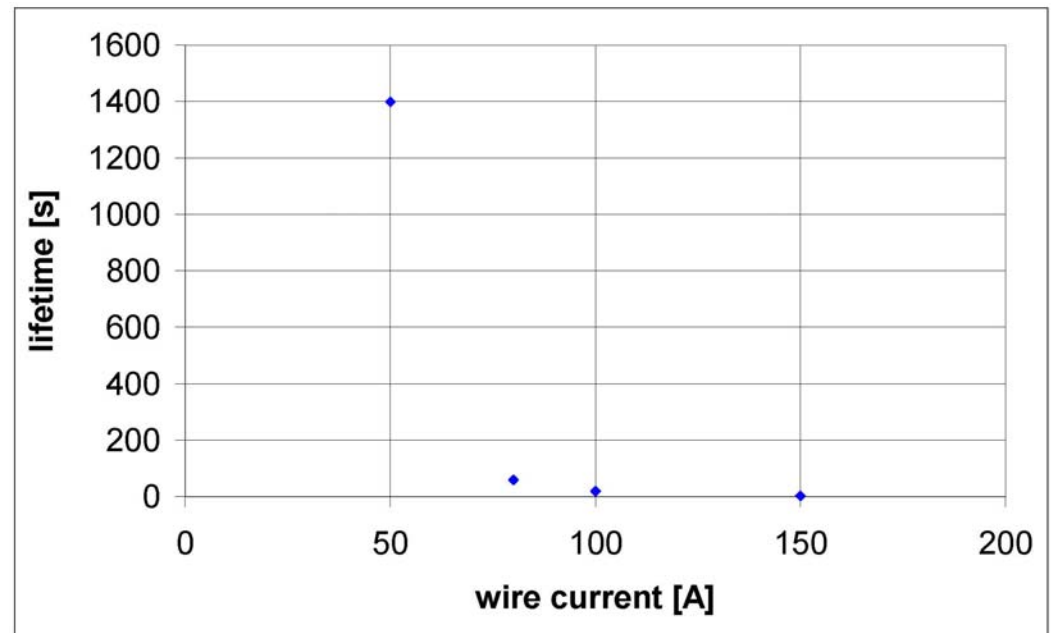
*at these wire currents
lifetime is very low for
separation below 6 or 8 σ*

low-distance current scan at 37 GeV/c



constant 6 mm distance
between beam and wire center
 $\sim 4.3\sigma$ at 37 GeV/c

***for 50 A wire current
the effect of the wire
is no longer visible here***



some conclusions

- 2007 BBLR MDs are off to an excellent start
- non zero chromaticity enhances effect of long-range collisions
- scaling behavior violated (26 GeV “special”?)
- few LR encounters at small distance may be acceptable (we should check this with higher lifetime resolution)
- BBLR1 needs to be rotated by 180 degrees prior to week 34 MD, if possible
- we look forward to compensation studies and measurements at 55 GeV