D0 measurements

L. Barion, G.Battaglia, M. Contalbrigo,

P. Lenisa, A. Movsisyan, I. Balossino

INFN Ferrara



Spot 2D Histogram



d0

Mirrors: CMA2 Edmund

Measurements: d0 vs exposition time d0 vs mirror distance 2

8 Aug 2015

CMA2 Previous measurements





May 2015 LNF d0 1.14 mm

June 2015 Ferrara d0 2.4 mm

8 Aug 2015

Experimental conditions CMA2 mirror has been put in the dry cabinet for 1 week.

After several background studies we decided to work only with: -High light intensity, -Small exposition time. So there is only electronic background.

edmund : d0 vs exp. time



8 Aug 2015

5

CMA2 : d0 vs exp. time

Total Normalized Intensity



of the spot

8 Aug 2015

6

CMA2 : d0 vs exp. time

Total Normalized Intensity



Radius of integration of the spot





Conclusion

After 1 week in the dry cabinet the CMA2 has a d0 0f 1.4t5 mm

The mirror is sensitive to the humidity since it's not coated.

8 Aug 2015

10