First K2 simulation with graphite jaws

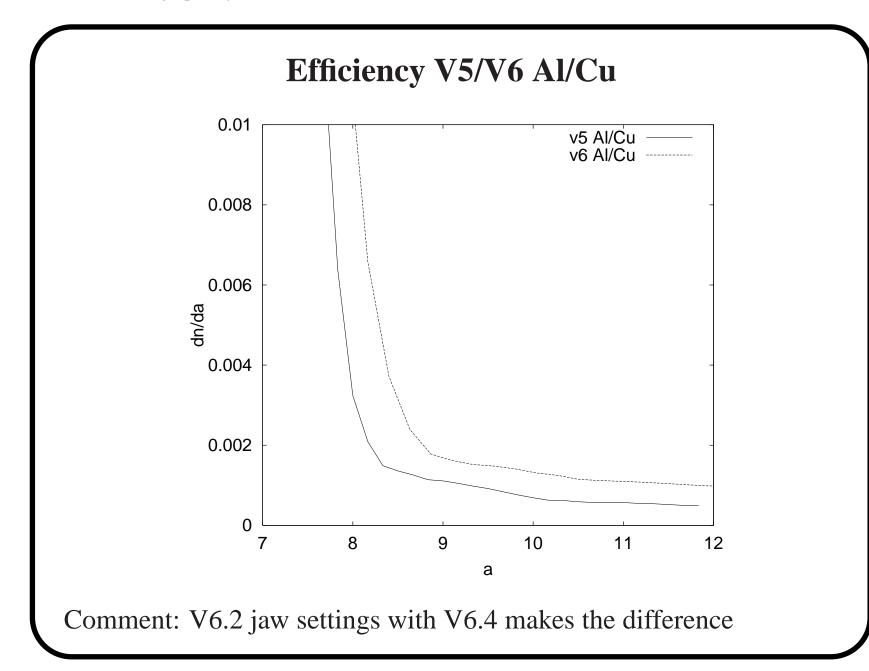
BCSG, 4th Dec 2002

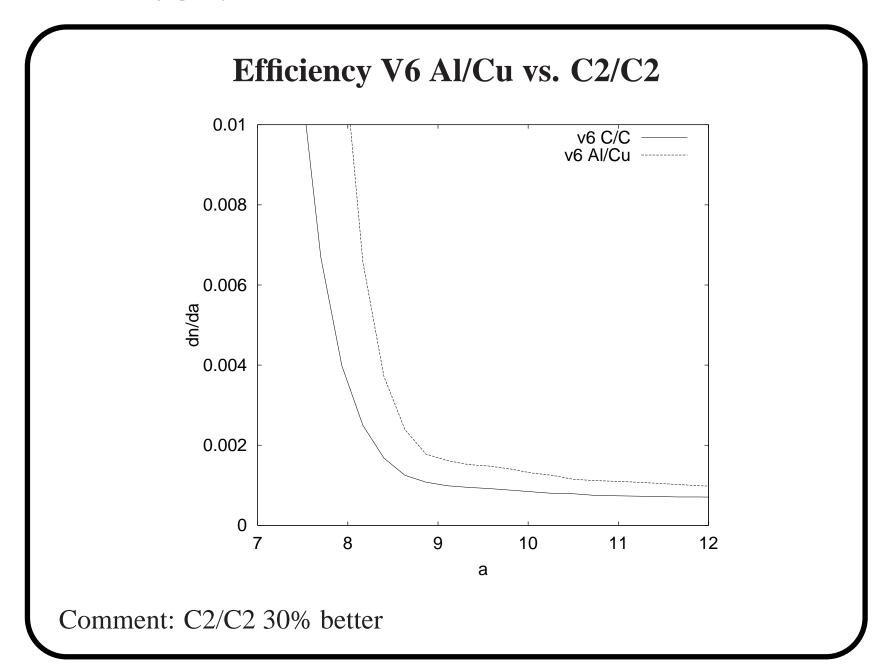
J.B. Jeanneret

/Text/LHC/2002/coll_dec/c2.tex

Input material

- IR7, optics V6.4 (thanks to Dobrin and Thys)
- jaw lengths: prim: 0.2m, sec: 0.5m
- Gaphite jaws $\rho = 4.52 \text{ g/cm}^3$ (twice the standard value) to avoid changing the layout
- Jaw location and skew as optimised for V6.2 (see below)
- $n_1 = 6.0$, $n_2 = 7.0$ (distance to beam adjusted correctly)
- 100k runs made for V5 Al/Cu , V6.4 Al/Cu , V6.4 C2/C2





Conclusions

- K2 works under Linux, finally
- Several files, under final shaping, for Markus at hand
- With graphite, .4 / 1m long jaws, collimation efficiency is equal/better then with former Al/Cu .2 / .5m
- A factor 2 in efficiency was lost between V6.2 and V6.4 (jaw location/skew no readjusted as of today for V6.4)