

**Beam-Beam Interaction Study for DAΦNE,**  
M. ZOBOV, INFN-LNF; K. HIRATA, KEK - The right choice of a working point is very important for good collider performance. We use a recently developed beam beam simulation code\* in order to find a suitable working point for DAΦNE. The performed tune scan shows reasonably large "safe" area around working points  $(\Delta v_x, \Delta v_y = (0.09, 0.07)$  and  $(0.53, 0.06)$ , which both have an optimum luminosity, acceptable tail growth and satisfactory dynamic aperture. The possibility to employ the two interaction points in DAΦNE is also analysed.

\* K. Hirata, Phys. Rev. Lett. 74, 2228 (1995).