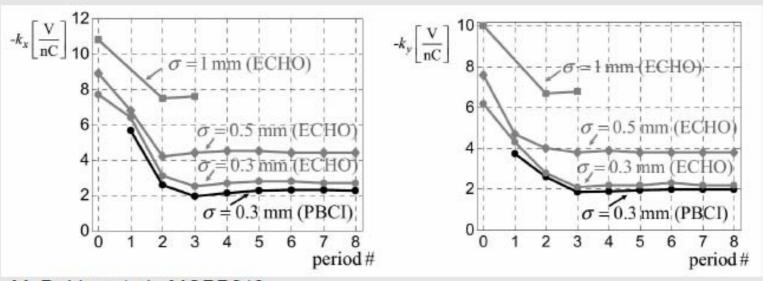
Question on Coupler Wake

Kiyoshi Kubo 20080916

Wake potential per cavity depends on number of cavities in calculation?

- Dirk's slide (phone meeting July 22, 2008)
- Slava's slide ("Wake Festa" Dec. 2008, SLAC)
 - These two are understood.
- Figure attached to Slava's message
 - This is difficult. (???)

Size of Transverse Coupler Wakefield in Periodic Structure

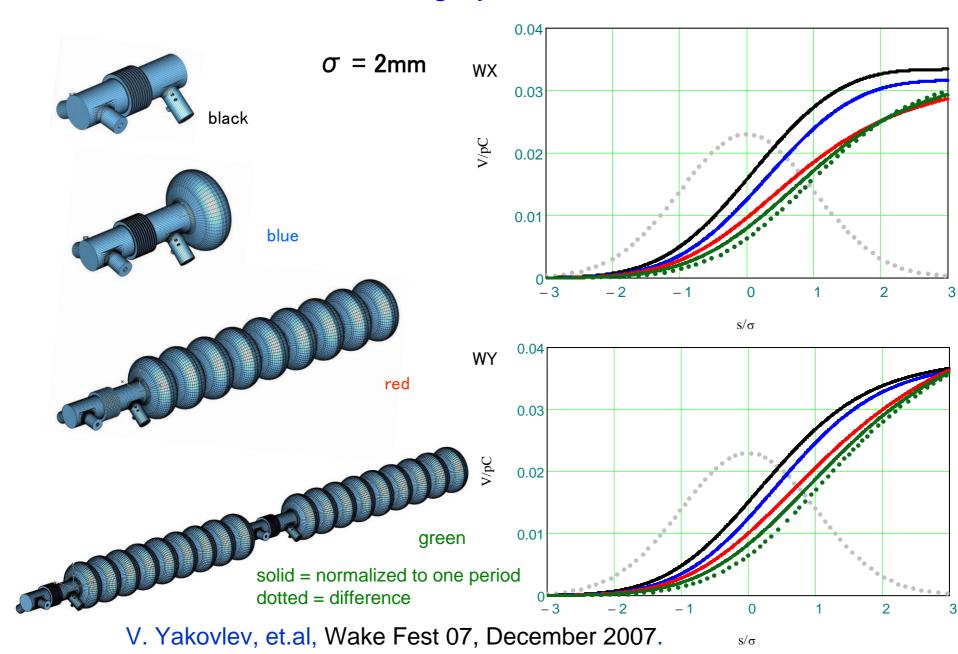


M. Dohlus et al., MOPP013

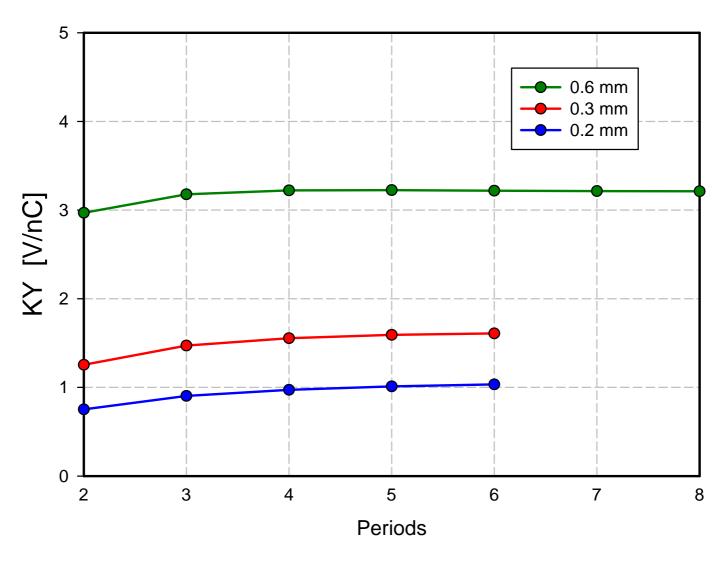
Compared to 21 V/nC, 19 V/nC in my simulations

Significantly smaller now! 1/10

Wake shielding by RF structure



"The kick per period after the different number of periods"



by Vyacheslav Yakovlev (Slava)

- "Actual coupler wakepotential for short bunch beam (0.3 mm) is much smaller than that used to be estimated" is the conclusion?
- Coupler wake will not a problem in main linac.

Correct?

How about in bunch compressors, where the bunch is not so short?