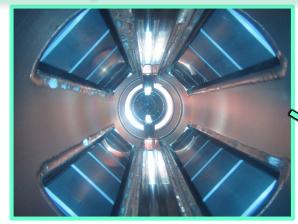
## Unique Space-Saving Features of the RF Accelerating Structure for the SuperKEKB / Positron Damping Ring

The HOM absorbers in the grooved beampipes absorb not only TE modes but also higher-order TM modes.



No additional HOM absorbers (such as SiC ducts) needed

E.g. SiC duct used at the MR / RF section



(280 mm long)

The neighboring cavities share a grooved beampipe in-between.

The HOM absorbers are all **compact** tile-shaped SiC ceramics (48 x 48 x 20 mm<sup>3</sup>).



The cavity is connected directly to grooved beampipes without bellows.

✓ Fixed with 16 M12 bolts

√ Vacuum-tight lip welding at the outer periphery ("weld ring gasket")