Contribution ID: **219** Type: **Poster**

Electroweak penguins in isospin-violating Bs decays

During the last decade, experimental data from B -> K pi decays has caused many discussions about deviations from Standard Model predictions and their possible explanation by New Physics. In particular, models which allow for enhanced electroweak penguins have been investigated in this context since they allow for sizeable isospin-violating effects.
We study the consequences of such enhanced electroweak penguins in the purely isospin-violating decays Bs -> phi rho and Bs -> phi pi. The branching fractions of these modes are highly sensitive to New Physics in EW penguins and are thus an interesting topic for LHCb and Super-B-factories, complementary to precise B -> K pi measurements.

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Track Classification: 06 - CP violation, CKM and Rare Decays