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## **Disturbance model integration into ring simulations for PETRA IV fast orbit feedback system**

PETRA IV, a low emittance fourth generation light source is the upcoming flagship project of DESY. Stringent stability of the electron beam orbit in the ring will be required to achieve a diffraction limited photon beam quality. A fast orbit feedback system is being modelling and designed. One important aspect is the disturbance modelling. Preliminary ideas for correlation lengths of ground and amplification factors of the closed orbit are presented

### **Summary**

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