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**Paper: https://doi.org/10.1140/epjp/s13360-021-01348-5**

Problem, usually correction is made few times a year, multiple magnets at a time. Goal, predict individual magnet errors as misalignment, sextupoles…

**INPUT:** deviation of the optic measurement from design \Delta(x)

**OUTPUT:** In this case, effective quadrupole field errors

source of the problem (change in intensity of field? position of magnet? Intensity of current of electromagnet?)

* Correction of the problem compensating predicted errors

How does mad-X work

**Pregunta**: The paper does not talk about the correlation between change in field and an applicable correction ie repositioning of magnet, intensity change