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Investigation of performance of x-ray capillaries with a lacquer-metal reflectivity layer

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L-09

Integrated magnets of double bend achromat for Max IV 1.5 GeV and Solaris storage rings

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Integrated magnets technology has been developed at Max IV Laboratory and chosen for construction of Max IV and Solaris storage rings [1]. Challenging task of design the complex magnets structure machined out of a single iron block has been achieved. That was required for highly precise adjustment of magnetic elements and small aperture, which allow for low beam emittance [2] as well as for reduction of the construction and operational costs of the light source.

Our contribution presents the operation principles and current status of manufacturing of Max IV 1.5 GeV and Solaris double bend achromat.

References

- [1] M. Johansson, *Proc of IPAC 2011*, San Sebastian, 2430-2432.
- [2] M. Erikson et al, *Proc of IPAC 2011*, San Sebastian, 3026-3028.