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Design and magnetic measurements of a hybrid wiggler for SR research program at VEPP-4

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Hybrid wiggler for SR research program at the VEPP-4 was created in the Budker Institute of Nuclear Physics. The wiggler consists of ordinary poles with coils, which generate a spatially periodic magnetic field equal to 1.8 T. Also, permanent magnets are insertion between the poles for increasing magnet field up to 2.05 T. In this paper we present the design, calculations and magnetic measurements for the hybride wiggler.

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