

## CR/SC MULTILAYER RADIATOR FOR PARAMETRIC EUV RADIATION IN “WATER-WINDOW” RANGE

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Recently, in [1] it was experimentally shown that a Mo/Si multilayer may be used for generation of quasimonochromatic radiation in the range of extreme ultraviolet. This report presents the results of similar experimental study using the multilayer radiator consisted of 100 Cr/Sc bi-layers placed on a 0.5  $\mu\text{m}$  thick  $\text{Si}_3\text{N}_4$  membrane. The multilayer was specially created for generation of the parametric radiation in the “water window” spectral range of generated photons. The results of test measurements of the angular distributions of the density of extreme ultraviolet radiation generated by 5.7 MeV electrons in a periodic structure of the multilayer are presented and discussed.

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### References

- [1] S.R.Uglov, V.V.Kaplin, L.G.Sukhikh, A.V.Vukolov. JETP Letters, Vol. **100**, No. 8 (2014) 503

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