

About the Cover:

Scientist Andrei Babushkin is shown aligning a frequency-tripling crystal in the apparatus he is using to demonstrate a new dual-tripler scheme for converting the infrared light of OMEGA to the third harmonic in the ultraviolet. This crystal has been placed in front of a large octagonal mounting that holds a doubler-tripler crystal pair. Together, these three crystals triple the frequency of infrared light with high efficiency over a significantly wider bandwidth than has been obtainable until now with doubler-tripler pairs alone. When implemented on the OMEGA laser system, efficient frequency tripling over widened bandwidths will allow the use of broadband beam-smoothing techniques with faster smoothing times than have been possible until now. Dr. Babushkin is one of a team of several scientists from LLE and elsewhere involved in the development of this technique.

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