Frequency Doubling with a Nd:YAG laser

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We have repaired the Quantronix 116 Nd:YAG laser in the Modern Optics Lab (MOL, 6.161). In particular, the water filter, the deionizer, and the Krypton pump lamp were replaced. With these changes, we have observed up to 14W of IR output at 1064nm. We then used the newly-repaired Quantronix 116 to perform frequency doubling with a KDP crystal, producing green light at 532nm. Frequency doubling efficiency was measured as a function of input IR power, yielding a constant conversion efficiency of approximately 5.2%.
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1. Introduction

This is a test to see how the text wraps. Roaring Spring Compositions Tony Hyun Kim 6.161: Modern Optics Lab. Research Laboratory of Electronics at MIT.

References

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