

## Proceedings of the Council of Deliberation of the State of New York Volume 52



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## PROCEEDINGS OF THE COUNCIL OF DELIBERATION OF THE STATE OF NEW YORK VOLUME 52



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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 20 pages. Original publisher: Adelphi, MD : Army Research Laboratory, 2009 OCLC Number: (OCoLC)503456390 Subject: Solid-state lasers -- Research. Excerpt: . . . Using the simulation and, it is possible to plot the losses due to upconversion as a C 8C up up function of both intensity and erbium concentration. Increasing either intensity or Er resulted in more loss, as seen in figure 6. The upconversion seems to scale linearly with Er , although its relationship with peak intensity is more complicated. Figure 6. Losses due to upconversion as a function of both erbium doping and beam peak intensity. Increasing either Er or peak intensity will cause more upconversion until a maximum upconversion rate has been reached. 4. Summary and Conclusions In an Er: YAG laser operating at 1645 nm, no upconversion would ideally take place, and the pump photons would have a 1: 1 ratio with emitted photons. The only non-negligible heat generation would be from phonons that make up the quantum defect. The presence of upconversion causes more heat generation and lowers the power of the emitted laser beam, putting an upper bound on the allowable pump beam intensity and Er , both of which introduce limits in creating a high energy laser. The results of the experiment show that the assumptions made were justified, that the experimental setup is effective at producing reliable information about the behavior of upconversion in Er: YAG, and that upconversion increases with Er and beam intensity. 9 This item ships from La Vergne,TN. Paperback.



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