

Re: Is an omnidirectional laser possible?

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On Mar 5, 7:40 pm, "Green Xenon [Radium]" <gluceg...@xxxxxxxxxx> wrote:

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Is it possible to design an omnidirectional laser that gives out coherent and in-phase light in all directions?

Yes, a laser could be built to amplify and emit a pure spherical (s) wave by exciting the laser medium between two precisely shaped and positioned concentric spherical mirrors. The outer or inner one could be partially transparent to emit diverging or converging light, respectively. I don't think such a thing has ever been built, and it would be difficult to obtain the required accuracy. The converging variety would be ideal for imploding spherical targets for direct drive Inertial Confinement Fusion.

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