

Focusing with quadrupoles?

Source: <http://sci.tech-archive.net/Archive/sci.physics.research/2007-10/msg00039.html>

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 - *Date:* Sun, 7 Oct 2007 14:31:44 +0000 (UTC)
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Hello,

I read that quadrupole magnets focus in one plane and defocus in the other. I understand that in a doublet configuration (FODO) one can get net focusing in both planes. But in this case the beta function is big in one transverse plane and small in the other for a given position along the beamline.

How can it be that at a collision point of a particle accelerator one can squeeze the beam in both planes? I heard that triplets can do that. Where can I read more about this?

Thanks,
Natalia Sanchez

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