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Undulator radiation inside a dielctric waveguide

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We investigate the radiation from a charge moving along a helix around a dielectric cylinder immersed in a homogeneous medium. We are mainly concerned with the radiation propagating inside the cylinder. The radiation intensity for the modes propagating inside the cylinder is evaluated by using the work done by the radiation field on the charge and by evaluating the energy flux through the cross-section of the cylinder.

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