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Title: Terahertz wave propagation of one-dimensional antiferromagnetic/dielectric qusi-periodic photonic crystals

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Abstract: The transmission of electromagnetic wave at oblique incidence through an antiferromagnetic/nonmagnetic multilayer with a Fibonacci quasi - periodic sequence is calculated by using the transfer matrix approach. Numerical simulations show that many transmission peaks appear in the band gap. Also more and more transmission peak appear as the number of layers in the sequence increases. In addition, the dependence of transmission peak on dielectric constant of nonmagnetic layer, incident angle and wave polarization is also discussed.