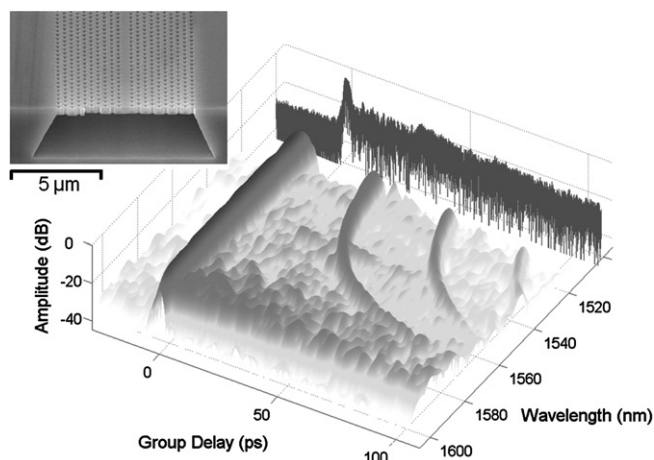


COMPTES RENDUS PHYSIQUE

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Delay versus wavelength map of the optical signal backscattered from a Photonic Crystal waveguide. The map is constructed from phase-sensitive reflectogram (blue solid line). The four strong peaks emerge from the background are related to reflection at the waveguide facets; the first one is the direct reflection at the input facet. The delay versus wavelength dependence of the peaks follows the strong waveguide dispersion. Near the waveguide cut-off, the background signal increases due to enhanced backscattering. Insert: SEM image of the GaAs photonic crystal waveguide membrane. (~ 1 mm long)

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