

makes them equivalent to phonon polaritons (PhPs)¹⁵. The 2D PhPs are predicted to have excellent characteristics such as ultra-slow

monolayer h-BN [see Fig. 2d, the corresponding second derivative results of Fig. 2c (Methods)]. To assign the phonon modes measured

characteristics of the Cu foil substrate, we performed a comparative 2D-

momenta than thinner layers, which gives the thinner layers a lower deceleration factor and higher confinement factor. In this regard, the PhP in monolayer h-BN has the optimal deceleration factor and confinement

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