This is the title of the paper

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ABSTRACT

In this work we demonstrate a_b the formation Y_1 of a new type of polariton on the interface between a cuprous oxide slab and a polystyrene micro-sphere placed on the slab. The evanescent field of the resonant whispering gallery mode of the micro sphere has a substantial gradient, and therefore effectively couples with the quadrupole 1^S excitons in cuprous oxide. This evanescent polariton has a long life-time, which is determined only by its excitonic and component. The polariton lower branch has a well pronounced minimum. This suggests that this excitation is localized and can be utilized for possible. The spatial coherence of the polariton can be improved by assembling the micro-spheres into a linear chain.

1. Section-1

Text of section-1 [1].

2. Section-2

Text of section-2 [2].

3. Section-3

Text of section-3 [3].

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