

## **Slowing down wave packets in quantum graphs**

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The problem of creating compact optical delay devices is studied. One of possible applications of such a device is synchronizing the work of fast optical elements and much slower electronics. The goal is to find optical media where delay coexists with transparency. It will be shown that an optical line which can be approximated by a necklace-type quantum graph has this property. The work is joint with S. Molchanov.