

Supporting on-line material

Temperature dependence of optical gain in CdSe/ZnS quantum rods

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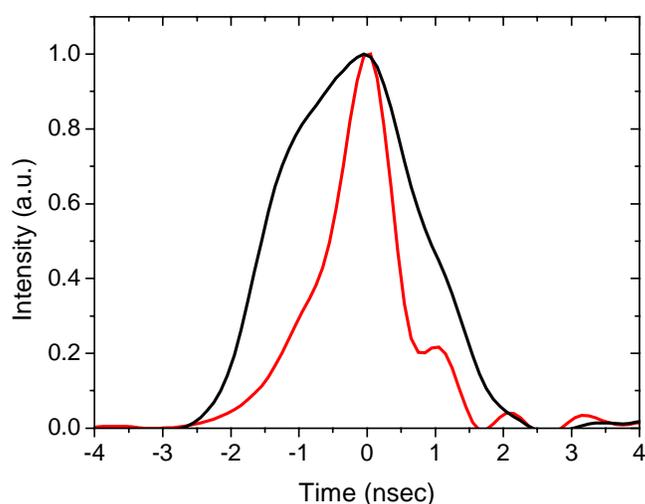


Figure S1: Time resolved measurements of the ASE from a 4x24nm CdSe/ZnS quantum rod film taken at $T=125\text{K}$ and full stripe length. An excitation power of 0.1mJ (at 10Hz) was used to sustain stable ASE emission. The measurement was carried out using a photodiode with a time resolution of 1-2 nsec triggered on the QR emission. At low trigger threshold (black line) the contour follows the 5nsec excitation pulse. At high trigger level (red line) we observe a (resolution limited) narrower feature within the detection temporal response indicating a transient ASE peak within the emission profile.