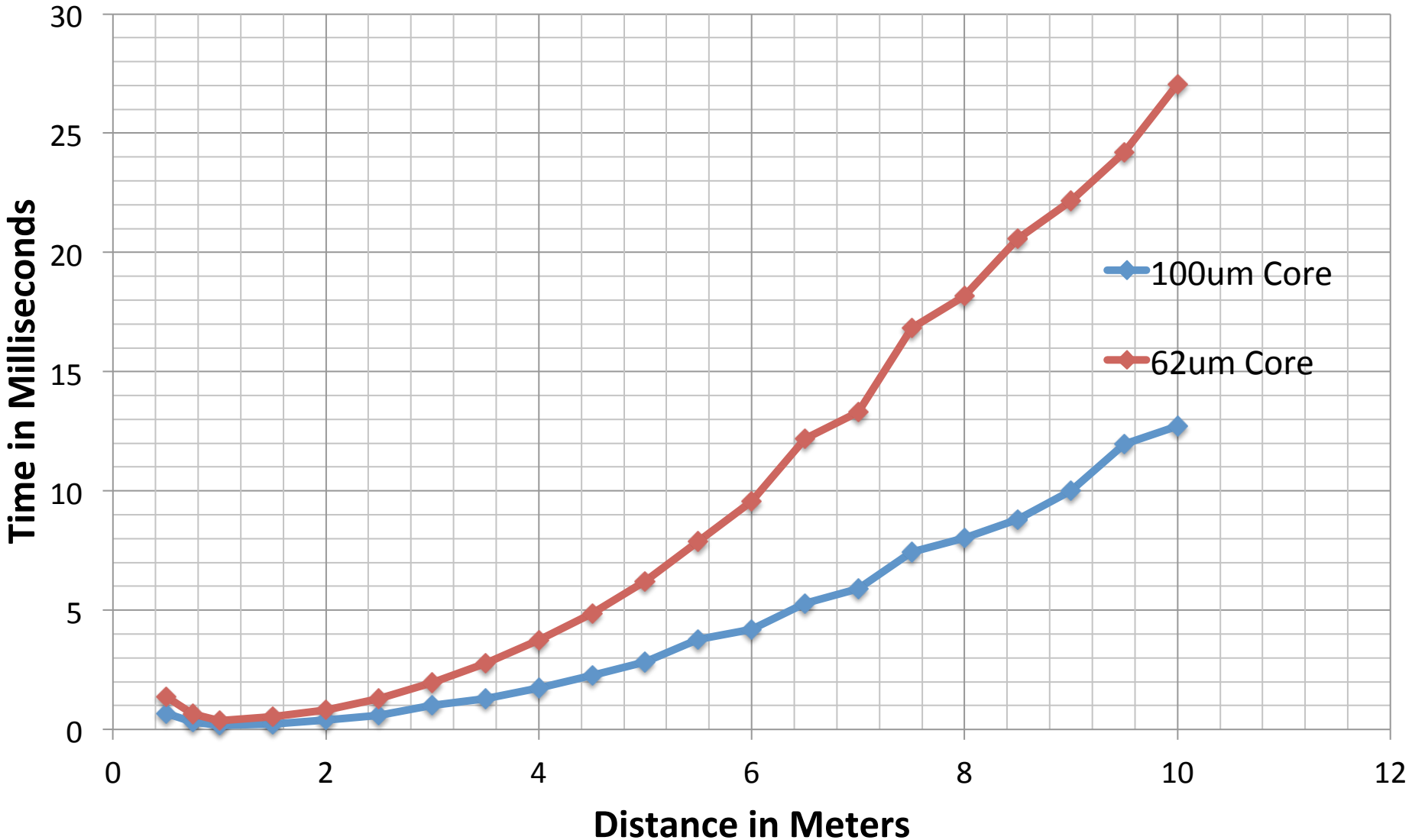


# BCAM Exposure Time Injecting from a Deep Red Luxeon-Z LED at 1Amp

Michael MacKenzie

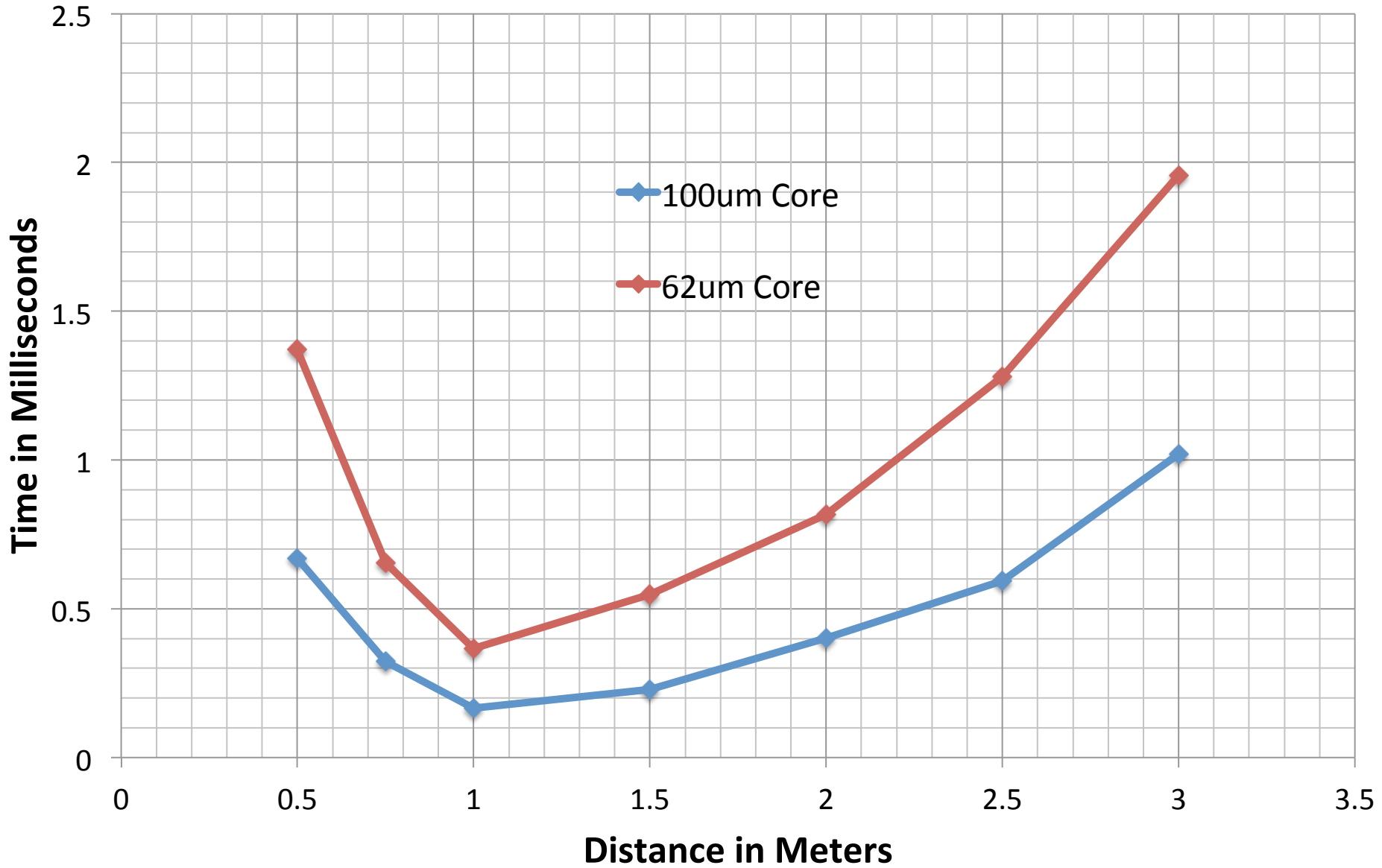
Brandeis HEP

## Exposure Time vs Distance



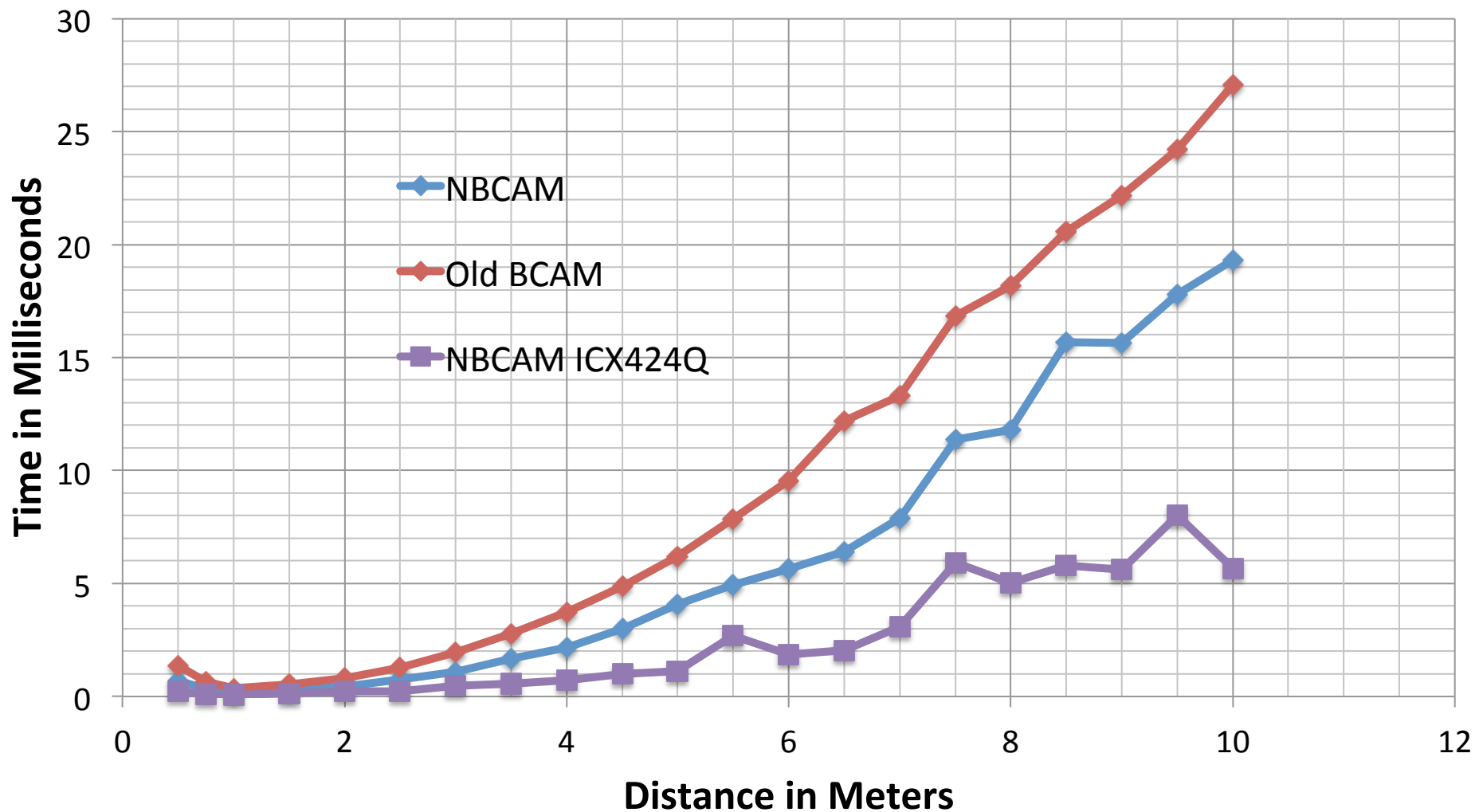
This graph shows BCAM exposure time versus distance. This was found using a BCAM to set the exposure to so it measured the same intensity each time it captured an image of a fiber transmitting light from a Luxeon-Z deep red LED. The BCAM was moved at varying distances from the fiber to create the above graph.

## Exposure Time vs Distance



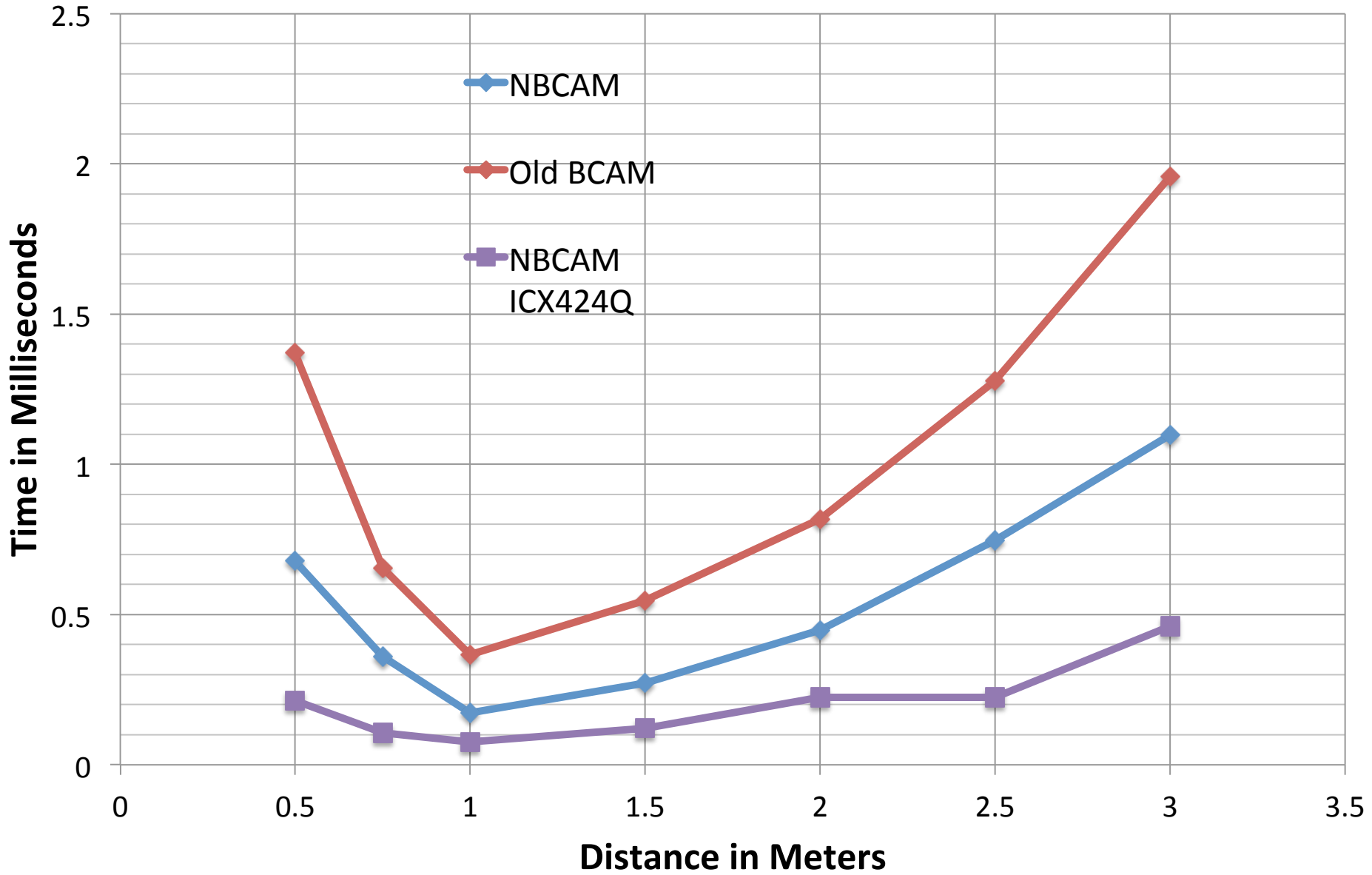
The above graph is the relevant distances for the nSW, taken from the previous graph.

## Exposure Time vs Distance Through a 62um Core Fiber



The above graph was made in the same way as the first graph. The difference is that the BCAM was then switched with an NCAM for the same fiber. Then the ICX424Q setting was used to repeat the experiment with the NBCAM.

# Exposure Time vs Distance



This is the relevant distances for the nSW graph, taken from the previous graph.