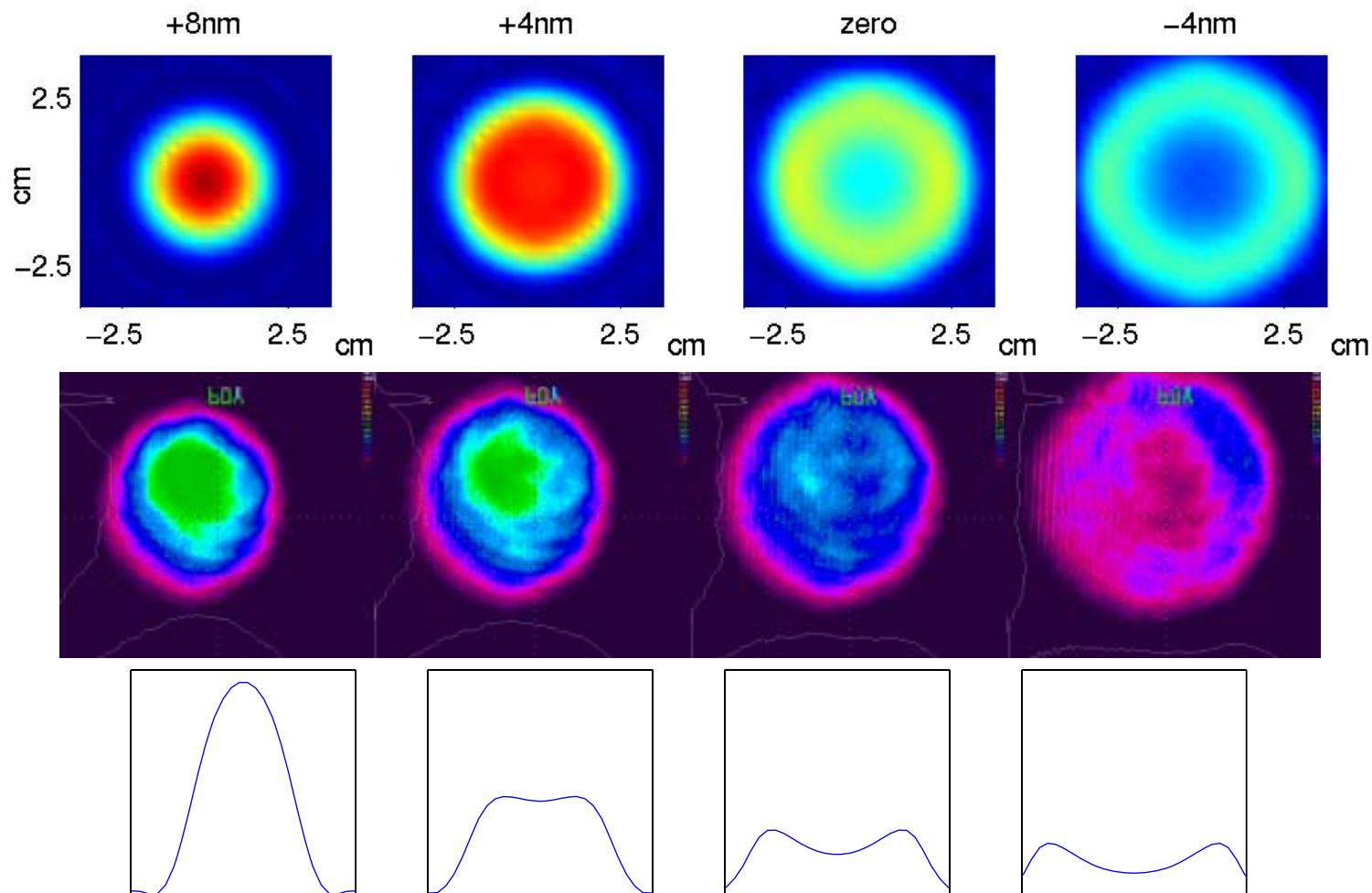


## Study of nonparaxiality using the LIGO Livingston detector



The violation of paraxiality destroys the usual separability of the modes and the standard Hermite-Gaussian labeling loses its meaning; such a behaviour has first been predicted for the LIGO detectors and then experimentally confirmed.