STRUCTURE AND KINEMATICS OF THE CENTRAL BLR IN AGN

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We will present recent results based on spectral variability campaigns of selected AGN taken with the 10m Hobby Eberly Telescope. Based on the variability of integrated line intensities with respect to variations of the continuum we deduce the distances of the line emitting regions from the central ionizing source. In combination with the line widths we derive the masses of the central black holes. Line profile variations give us information on kinematics and structure of the line emitting broad line region.

Finally we will present a newly detected trend of emission line widths with respect to their shapes in a sample of dedicated AGN line profiles. This general trend can be explained by the existence of different rotational velocities in the AGN broad line regions in combination with turbulent velocities belonging to the emission line regions of the individual lines.