## Feeding and Feedback in Nearby AGN Narrow-Line Regions (NLRs) (Crenshaw, Fischer, Gnilka, Revalski, Dashtamirova, Kraemer, Schmitt)

## *HST* F606W (1 "= 340 pc)



1) Nuclear dust spirals are ionized to form the NLR.



3) X-ray match suggests rapid phase transition.



2) Mrk 573 NLR shows *in situ* acceleration (A,B) of ionized and molecular gas from the rotating (C,D) dust/molecular spirals. Outflows extend to < 1 kpc.



4) Radiative driving + gravity indicate NLR clouds travel only 10s of pcs.

## **Conclusions:**

Ambient gas (e.g., dust spiral) is ionized and radiatively driven out to < 1 kpc in the host galaxies of moderate-luminosity AGN. Peak outflow rates are ~3 M<sub> $\odot$ </sub> yr<sup>-1</sup> (Revalski+ 2017, 2018). The NLR gas likely transitions from molecular  $\rightarrow$  ionized  $\rightarrow$  highly ionized gas over tens of pcs.