

Lightning Talk SHARMA

Hello Everyone! I am Anubhav Sharma from Haverford College and I am investigating H1 rich and low Star Formation galaxies in MaNGA. Neutral Atomic Hydrogen (H1) is the principle gas in galaxies that can form molecular hydrogen (H2) which can then initiate star formation. Therefore, it is evident that having higher H1 content directly relates to higher star formation rate. As shown in diagram at center, we can see that there are few H1 detections compared to H1 non-detections in low Star Formation region as per WISE calibration. I am interested in investigating few galaxies with higher H1 content but low Star Formation Rate, marked by the red circle the right diagram, because I think it will reveal us why these galaxies are inefficient to convert high amount of H1 to stars. Thank you!