

Astrophysical Jets: outflows of matter and energy from compact celestial objects

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Throughout our universe we observe situations where outflows of matter and energy are associated with some type of compact celestial object. This presentation will briefly introduce examples of such outflows at widely varying scales of size and power. Recent research results of one particular example, the jets from a relatively low power active galaxy, will be used to demonstrate some of the differences between all the situations of various outflows. Combining images and spectroscopic analysis collected at multiple wavelengths provides us with the opportunity to study the physics responsible for the structure and other observed properties. These dynamic situations are exciting probes for changing conditions in our cosmos.