

Who plays in the Hoyle band?

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The Hoyle state in ^{12}C was discovered over 50 years ago in 1957 and strongly influences the rate of the triple-alpha process in stars. Recently, significant experimental and theoretical effort has been invested to understand, in detail, its unorthodox structure. In particular, identification of excitations of the Hoyle state has been a key goal. This talk will address current progress with an emphasis on possible members of the Hoyle band and the structure implications.