

Sachu Sanjayan - Musical Orchestra of sub dwarf B stars in NGC6791

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We analyzed Kepler super apertures LC data of the open cluster NGC6791 to search for new pulsating sdB stars. We found a sample of many pulsating and binary stars, among which three of them are sdBV stars KIC2569576 (B3), KIC2437937 (B5) and KIC2438324 (B4). These stars were known before, though we extended the data coverage detecting more frequencies and features in periodograms, like new multiplets, extended period spacing sequences and candidates for trapped modes. We will show our results using the usual tools, like the KS test, echelle diagrams and reduce period diagrams. Our result will surely help calculating well constrained evolutionary models of these stars.

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