



(C)





 $\delta = +0.62^{+0.13}_{-0.17}$

Octupole correlation



yrast negative and positive parity bands.

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 \Box *Twenty-seven* new γ -ray transitions has been placed in the level scheme of ⁷³Br isotope using γ - γ coincidence technique. □ The enhancement of inter-connecting *E1* transitions ensures the presence of *octupole* correlations. \Box The shape isometric 9/2⁺ state along with the interlinking E0 and E2 transitions between two positive parity bands gives a conclusive evidence of *shape coexistence* in ⁷³Br nucleus.

transition

and

has

been

R_{DCO}-linear