

**PRIMARY ENERGY DETERMINATION OF UHE EVENTS
FROM PUBLISHED VOLCANO RANCH, YAKUTSK AND
AGASA DATA.**

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We have compared the lateral analytical structure functions coming from cascade theory to the numerical distributions generated by EAS Monte Carlo simulations and to the empirical functions used in Giant Air Showers experiments. Analysis of published data contained in the catalogues of Volcano Ranch and Yakutsk, and the most energetic event of AGASA is presented. We discuss effects of axis position, profile function, method of localization on the accuracy of energy estimation. Results might have important implications for detector configuration of the future Giant Air Shower arrays.