

## LETTERS TO THE EDITOR

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ELASTIC CONSTANTS OF SINGLE  
CRYSTALS OF BARIUM NITRATE

In a recent note, now under publication in *Nature*, it has been reported from this laboratory that the photo-elastic behaviour of barium nitrate crystals is exceptional in many ways. It is considered desirable to obtain the elastic constants of these crystals as no such data are available in literature. Necessary sections have been prepared, and the following results obtained by employing the ultrasonic wedge method developed here.

$$C_{11} = 6.02; C_{12} = 1.86; C_{44} = 1.21 \times 10^{11} \text{ dynes/cm.}^2$$

Plates of different thicknesses and wedges of different shapes have been used for confirmation in each case.

Dept. of Physics,                      S. BHAGAVANTAM.  
Andhra University,                  R. V. G. SUNDARA RAO.  
Waltair,  
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A REMARKABLE EVIDENCE OF A  
LOCAL THRUST PLANE AT THE TOP  
OF THE PURPLE SANDSTONE SERIES  
IN THE SALT RANGE

DURING our last excursion in November 1946, we came across an interesting thrust plane surface on the lower slope of the right (northern) ridge of the Gandhala gorge, S.W. of Choa Saidan Shah (Salt Range). The exact locality is where the foot-path called 'Majhi Chanewala rah,' running up along the outcrop of the Purple Sandstone from near the District Board Gardens in the gorge, passes between the two hills locally known as 'Jhangala and Othiawala'. As we climb up the spur along this foot-path and come to the top bed (a pebbly sandstone) of the Purple Sandstone series, we see a polished, more or less ridged and grooved, corrugated surface. This surface is over an area, about two yards wide and about seven yards long. It is likely to be mistaken at first sight for an artificially made surface, with drains having polished