

# The remarkable theorem of Gauß and eating *daala* with *rotee*.

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In this talk, you shall answer the following questions: (i) why do we fold the piece of *rotee* (रोटी) while eating *daala* (दाल) with *rotee*; (ii) why the metal roofs on houses are shaped like waves?; (iii) why the shapes of tree-leaves are how they are? Apart from this, we shall also see a century old problem called the "Map makers problem" and its solution by the Prince of Mathematics, C.F.Gauß.

In 1827, Gauß proved a theorem which he called "Theorema Egregium" in Latin — "Remarkable theorem" in English— in the article to solve this problem. We shall use the same theorem to answer above questions.

*Statuary warning for mathematicians:* we shall not discuss any (hardcore) mathematics, but gossip (a lot)— gossip some *ideas*!

