

### Tough Nut to Crack - Integration Problem

To be submitted by midday Monday 28th November 2016.

The prize is a mathematics book yet to be decided.

Determine the integral:

$$\int_{\sqrt{2}}^2 \frac{1}{x^2 \sqrt{x^2 - 1}} dx$$

The solution needs to be word processed and emailed to me at [k.singh@herts.ac.uk](mailto:k.singh@herts.ac.uk)

The criteria for winning the prize is order of priority are:

- 1) The correct answer.
- 2) The best presented answer.