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## A Contribution about the shrinking proton

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According to an assumption that the radius of a particle is dependent on the field and, ultimately, on the mass of all particles involved in the measurement, the charge radius of the proton  $R_p$  is reduced by muons  $\{\mu\}$  by about 5% in contrast to electrons  $\{e\}$ . The factor, widely confirmed by recent measurements, is calculated as

$$\frac{R_{\mu} - R_e}{R_e} = \frac{m_e - m_{\mu}}{m_e} = -0.992$$

This should also apply to other atoms measured by the help of muons, when for this purpose the corresponding particle mass is influencing the calculation. The basis for the solution of the problems actually occurring can already be found in the work from 1755 by the founder of the modern field theory, Prof. Roger Joseph Boscovich.

### Biography

Konstantin Meyl teaches the subjects power electronics and alternative energy technology at the University of Applied Sciences in Furtwangen. Being a 15-year-old pupil he already carried out the first measurements on eddy current brakes. His dissertation at the Technical University of Munich (1979), as well as his doctoral theses at the University of Stuttgart (1984) were dedicated to the three-dimensional calculation of eddy current.

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