



## CZYTAMY PO ANGIELSKU

Przypominamy Państwu bardzo stary wierszyk Johna Updike'a, z 1963 roku, o neutrinach. Zwracamy uwagę, iż wtedy faktycznie sądzono, że neutrina mają masę zerową. Dzisiaj wiemy, że tak nie jest. Wiemy też, że jest parę rodzajów neutrin.

### Neutrino

Neutrinos, they are very small  
 They have no charge and have no mass  
 And do not interact at all.  
 The earth is just a silly ball  
 To them, through which they simply pass,  
 Like dustmaids down a drafty hall  
 Or photons through a sheet of glass.  
 They snub the most exquisite gas,  
 Ignore the most substantial wall,  
 Cold-shoulder a steel and sounding brass,  
 Insult the stallion in his stall,  
 And, scorning barriers of class,  
 Infiltrate you and me! Like tall  
 And painless guillotines, they fall  
 Down through our heads into the grass.  
 At night, they enter at Nepal  
 And pierce the lover and his lass  
 From underneath the bed – you call  
 It wonderful; I call it crass.

#### Dictionary:

**weak force** – tzw. słaba siła

**break-up of the neutron** – rozpad neutronu

A oto obrazek z komiksu cernowskiego *The World of Particles*, European Laboratory for Particle Physics, 1991.

