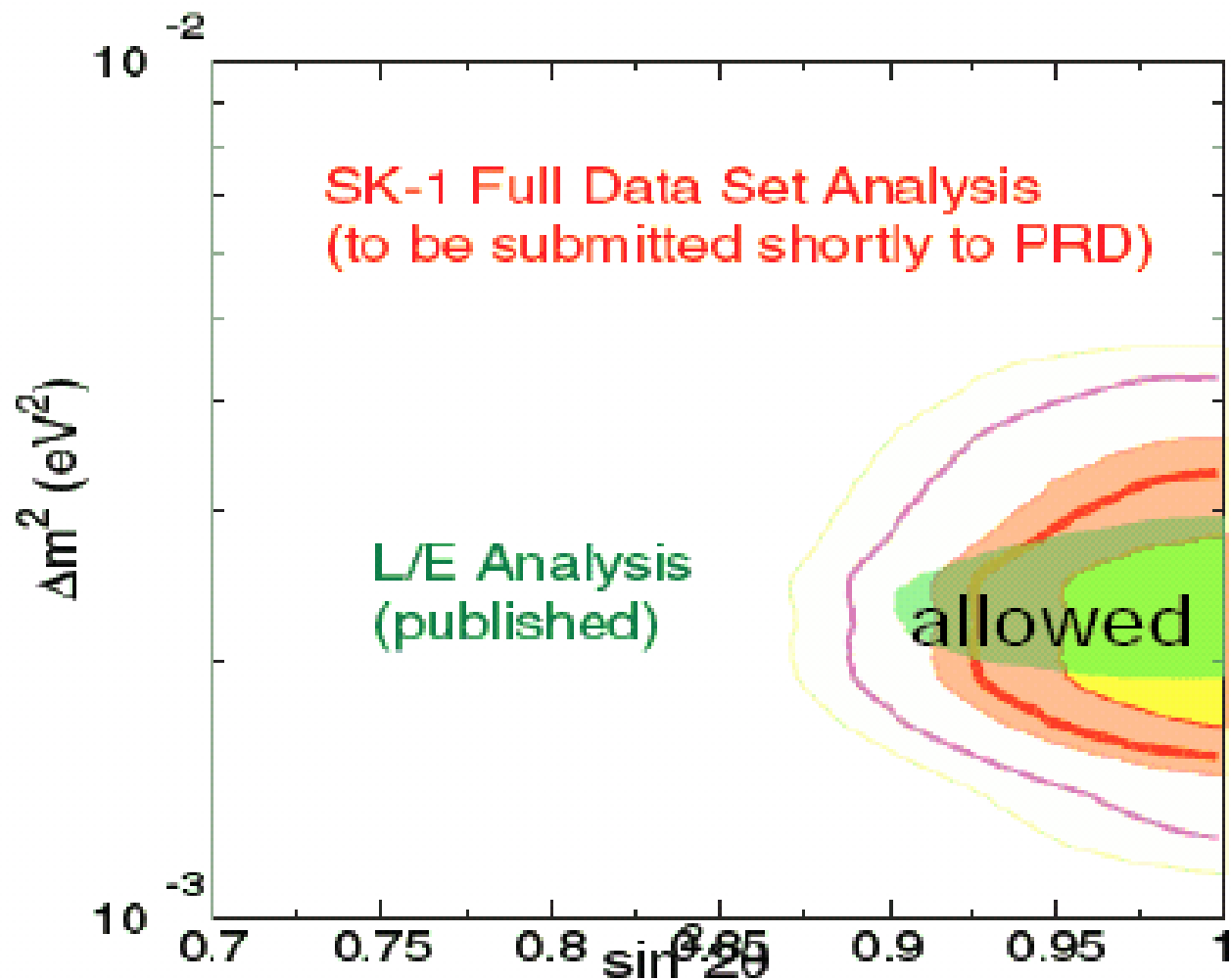


Evidenz fuer Neutrinooszillation von atmosphärischen Muon-Neutrinos



$\nu_\mu \leftrightarrow \nu_\tau$ mixing of atmos. neutrinos

$$\Delta m^2 = (2.4 \pm 0.4) \times 10^{-3} \text{ eV}^2$$

$$\sin^2 2\theta > 0.92 \text{ @ } 90\% \text{ C.L.}$$

Evidenz fuer Oszillation von Elektron-Neutrinos von der Sonne

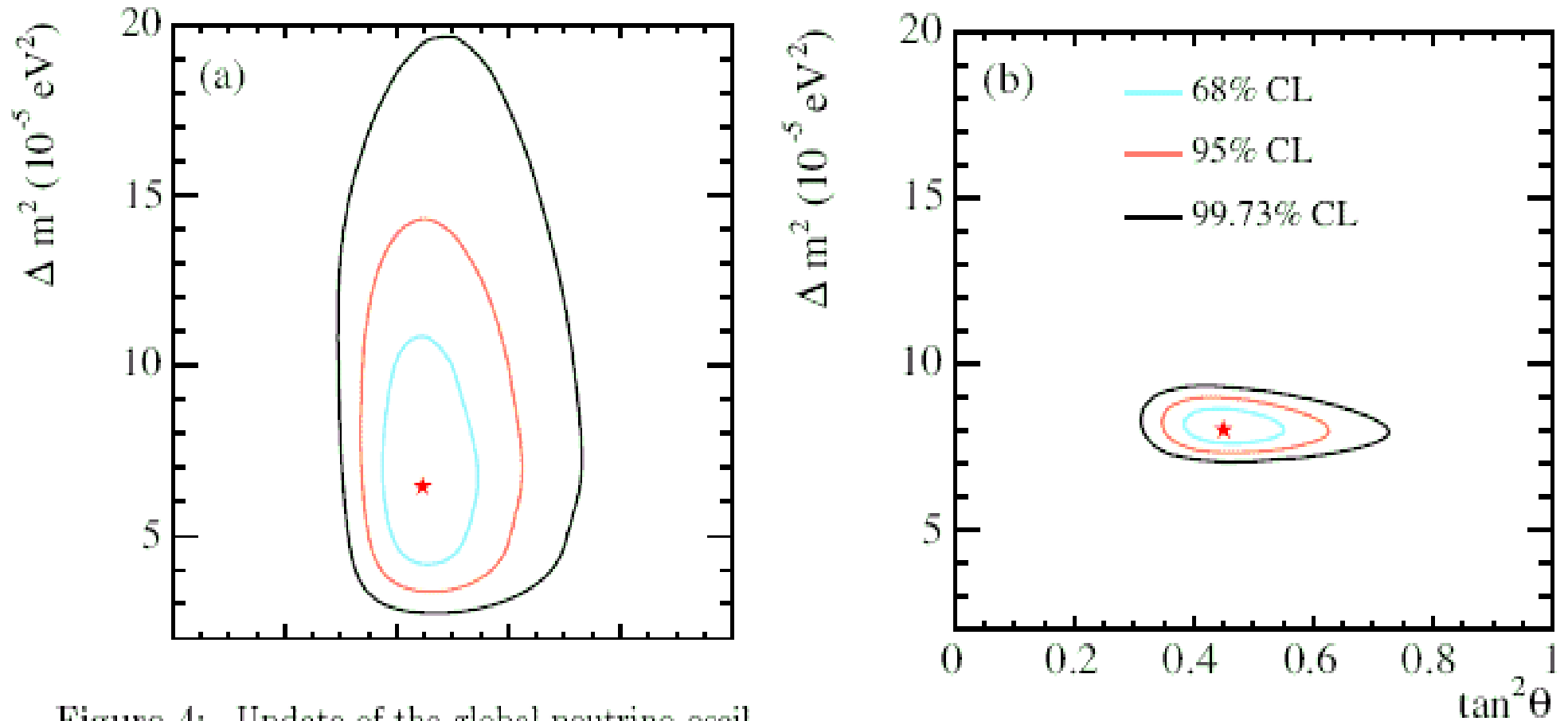


Figure 4: Update of the global neutrino oscillation contours given by the SNO Collaboration assuming that the ^8B neutrino flux is free and the ^7Be neutrino flux is fixed. (a) Solar global analysis. (b) Solar global + KamLAND. This figure is taken from Ref. [11]. See full-color version on color pages at end of book.

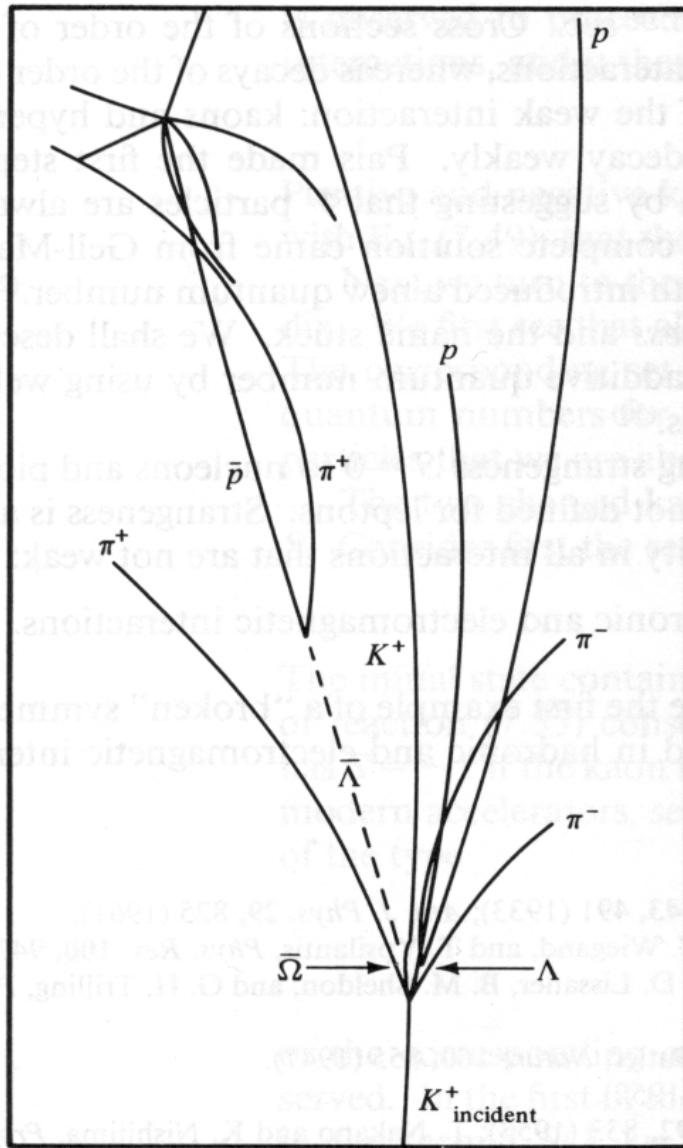


Fig. 7.7. Drawing of the reaction $dK^+ \rightarrow \bar{\Omega}\Lambda\Lambda p\pi^+\pi^-$ and the resulting decays. [A. Firestone et al., *Phys. Rev. Lett.* **26**, 410 (1971).]

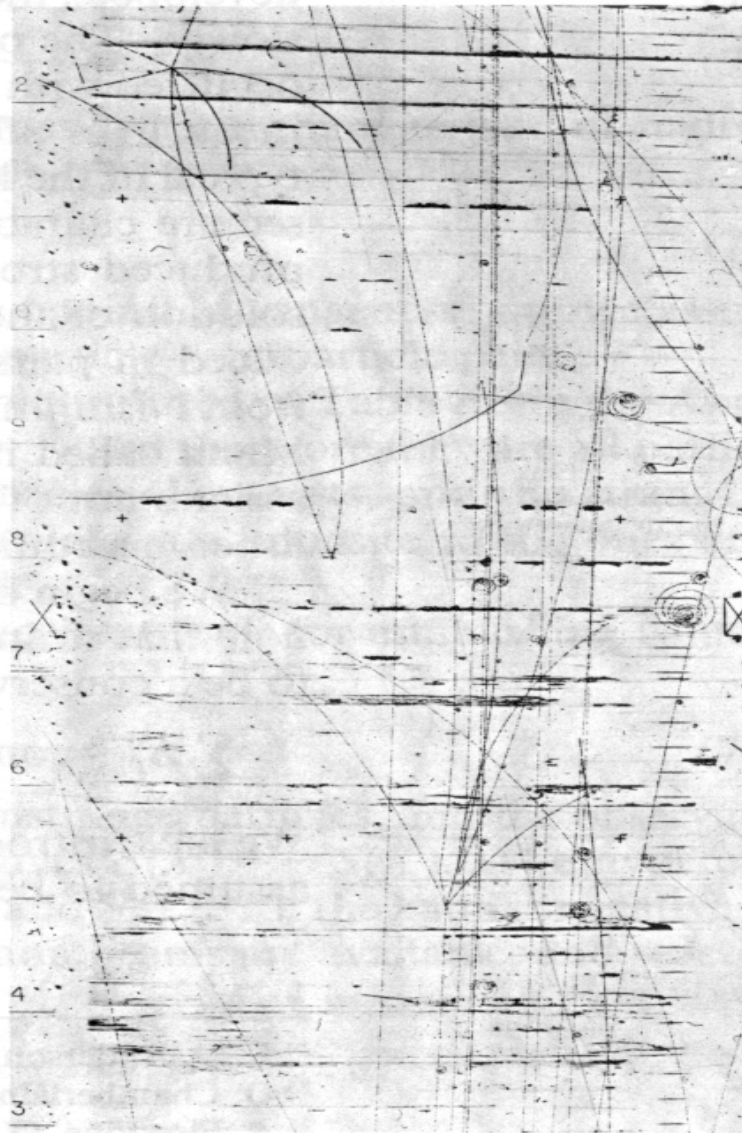


Fig. 7.8. Production of the $\bar{\Omega}$, observed in a study of K^+d interactions at a momentum of 12 GeV/c, in the 2 m SLAC (Stanford Linear Accelerator Center) bubble chamber.⁽²⁸⁾ (Courtesy Gerson Goldhaber, Lawrence Berkeley Laboratory.)