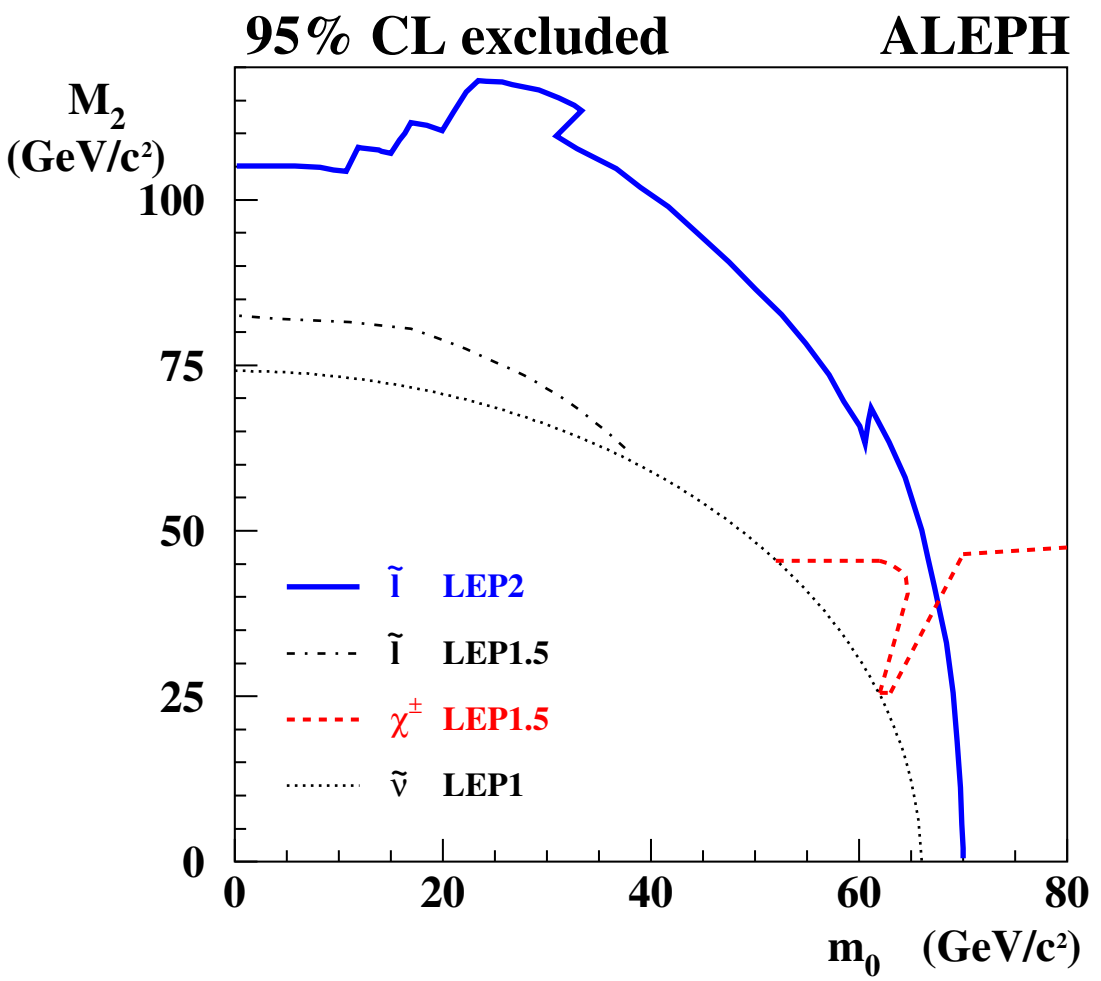
95% CL excluded
ALEPH
M2
(GeV/c²)
100
75
50
25
0
0
20
40
60
80
m0 (GeV/c²)
l̃ LEP2
l̃ LEP1.5
χ± LEP1.5
ν̃ LEP1

$$
\begin{aligned}
m^2_{\tilde{\ell}_R} &= m_0^2 + 0.15\, m_{1/2}^2 - \sin^2\theta_{\rm W} M_{\rm Z}^2 \cos 2\beta \\
m^2_{\tilde{\ell}_L} &= m_0^2 + 0.52\, m_{1/2}^2 - \tfrac{1}{2}(1 - 2\sin^2\theta_{\rm W}) M_{\rm Z}^2 \cos 2\beta \\
m^2_{\tilde{\nu}} &= m_0^2 + 0.52\, m_{1/2}^2 + \tfrac{1}{2} M_{\rm Z}^2 \cos 2\beta .
\end{aligned}
$$