Searches for Quark and Lepton Compositeness

Scale Limits Λ for Contact Interactions (the lowest dimensional interactions with four fermions)

If the Lagrangian has the form

$$\pm \frac{g^2}{2\Lambda^2} \overline{\psi}_L \gamma_\mu \psi_L \overline{\psi}_L \gamma^\mu \psi_L$$

(with $g^2/4\pi$ set equal to 1), then we define $\Lambda \equiv \Lambda^{\pm}_{LL}$. For the full definitions and for other forms, see the Note in the Listings on Searches for Quark and Lepton Compositeness in the full *Review* and the original literature.

$\Lambda^{+}_{LL}(e\,e\,e\,e)$	$>$	1.6 TeV, CL = 95%
$\Lambda^{-}_{LL}(e\,e\,e\,e)$	$>$	3.6 TeV, CL = 95%
$\Lambda^{+}_{LL}(e\,e\,\mu\,\mu)$	$>$	2.6 TeV, CL = 95%
$\Lambda^{-}_{LL}(e\,e\,\mu\,\mu)$	$>$	1.9 TeV, CL = 95%
$\Lambda^{+}_{LL}(e\,e\,\tau\,\tau)$	$>$	1.9 TeV, CL = 95%
$\Lambda^{-}_{LL}(e\,e\,\tau\,\tau)$	$>$	2.9 TeV, CL = 95%
$\Lambda^{+}_{LL}(\ell\ell\ell\ell)$	$>$	3.5 TeV, CL = 95%
$\Lambda^{-}_{LL}(\ell\ell\ell\ell)$	$>$	2.8 TeV, CL = 95%
$\Lambda^{+}_{LL}(e\,e\,q\,q)$	$>$	1.7 TeV, CL = 95%
$\Lambda^{-}_{LL}(e\,e\,q\,q)$	$>$	2.2 TeV, CL = 95%
$\Lambda^{+}_{LL}(\mu\,\mu\,q\,q)$	$>$	1.4 TeV, CL = 95%
$\Lambda^{-}_{LL}(\mu\,\mu\,q\,q)$	$>$	1.6 TeV, CL = 95%
$\Lambda^{\pm}_{LR}(\nu_\mu\,\nu_e\,\mu\,e)$	$>$	3.1 TeV, CL = 90%
$\Lambda^{\pm}_{LL}(q\,q\,q\,q)$	$>$	1.4 TeV, CL = 95%