Exercise

(11) For fixed masses of the four particles on the SUSY backbone, find a function $f(q^\mu, l_{near}^\mu, l_{far}^\mu)$ that is zero on the surface of the samosa, and is non-zero elsewhere.

[Hint: I suggest you try to solve for the invisible LSP momentum as a linear combination of the three visible four-momenta q^μ, l_{near}^μ, l_{far}^μ and a fourth four-vector that is a totally antisymmetric combination of them $\Omega_\mu = \varepsilon_{\mu\nu\sigma\rho}\, q^\nu\, l_{near}^\sigma\, l_{far}^\rho$. Then see under what conditions this solution is meaningful.]

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