

Tau length prefit

Tau length likelihood prefit

- Using coincidences is shit..
- Cuts are making your life hard

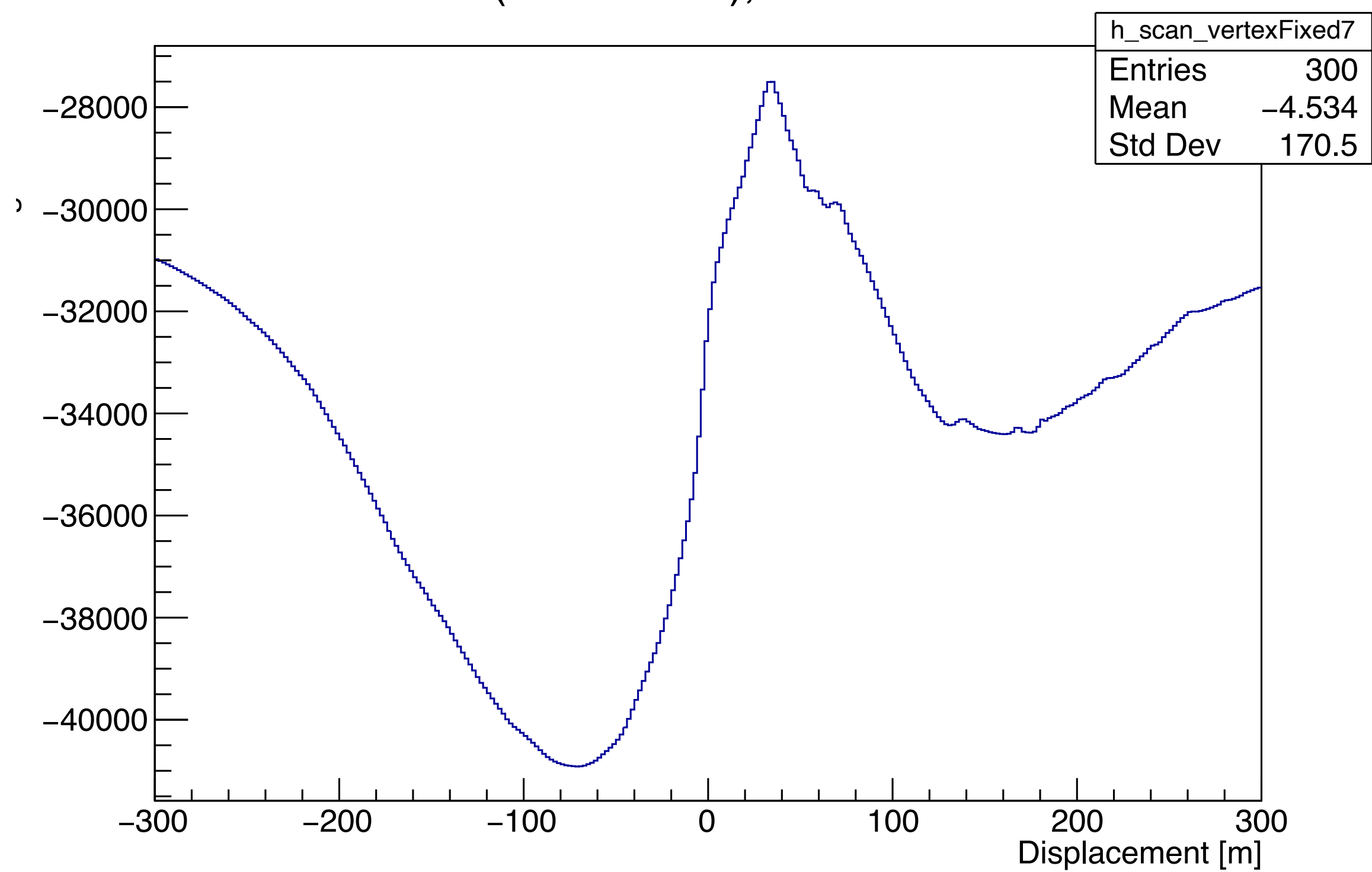
Let's use likelihoods

Method

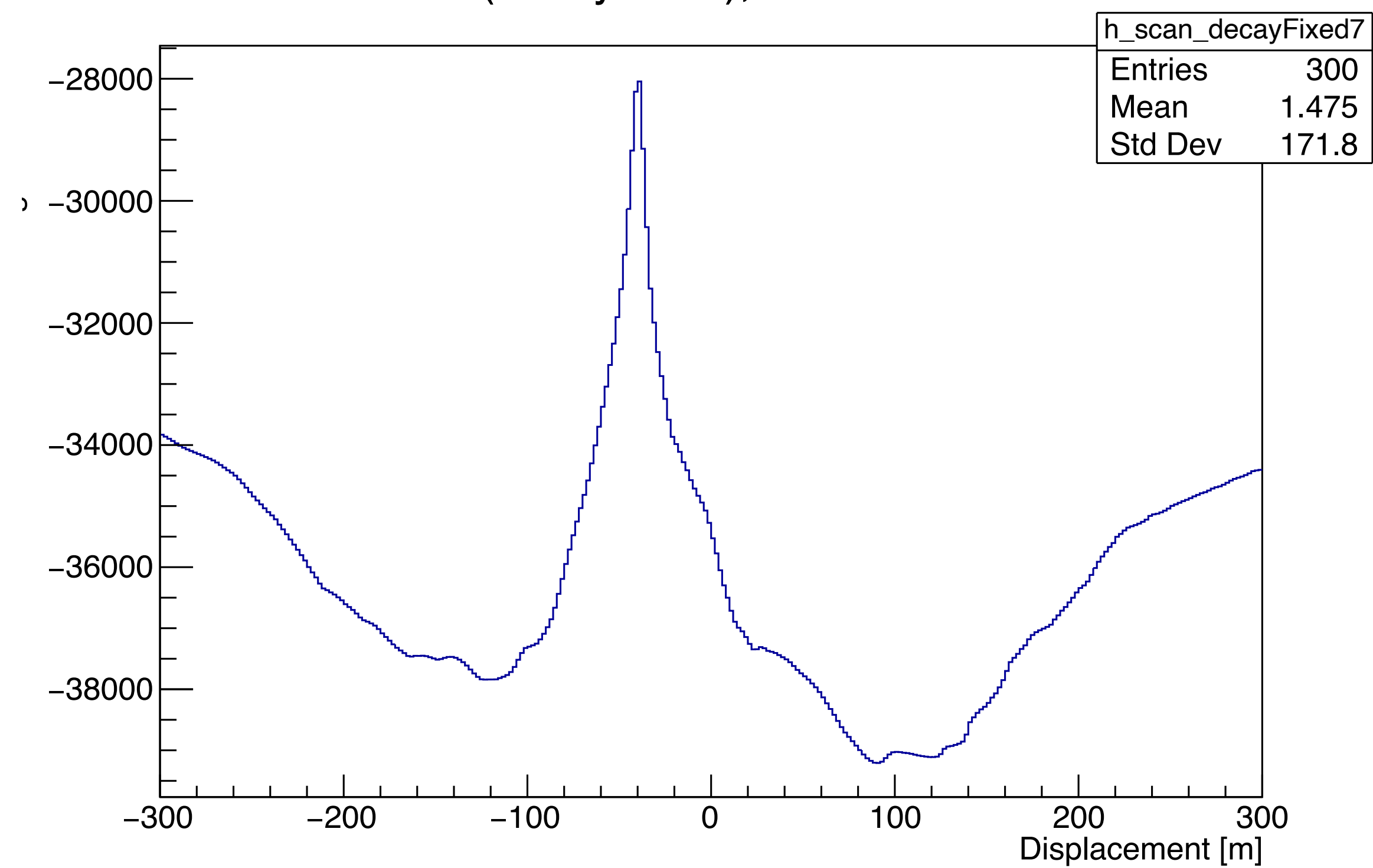
- Fix all parameters except length of tau
- Fix vertex/decay position
- Let fitter find decay/vertex position with best likelihood



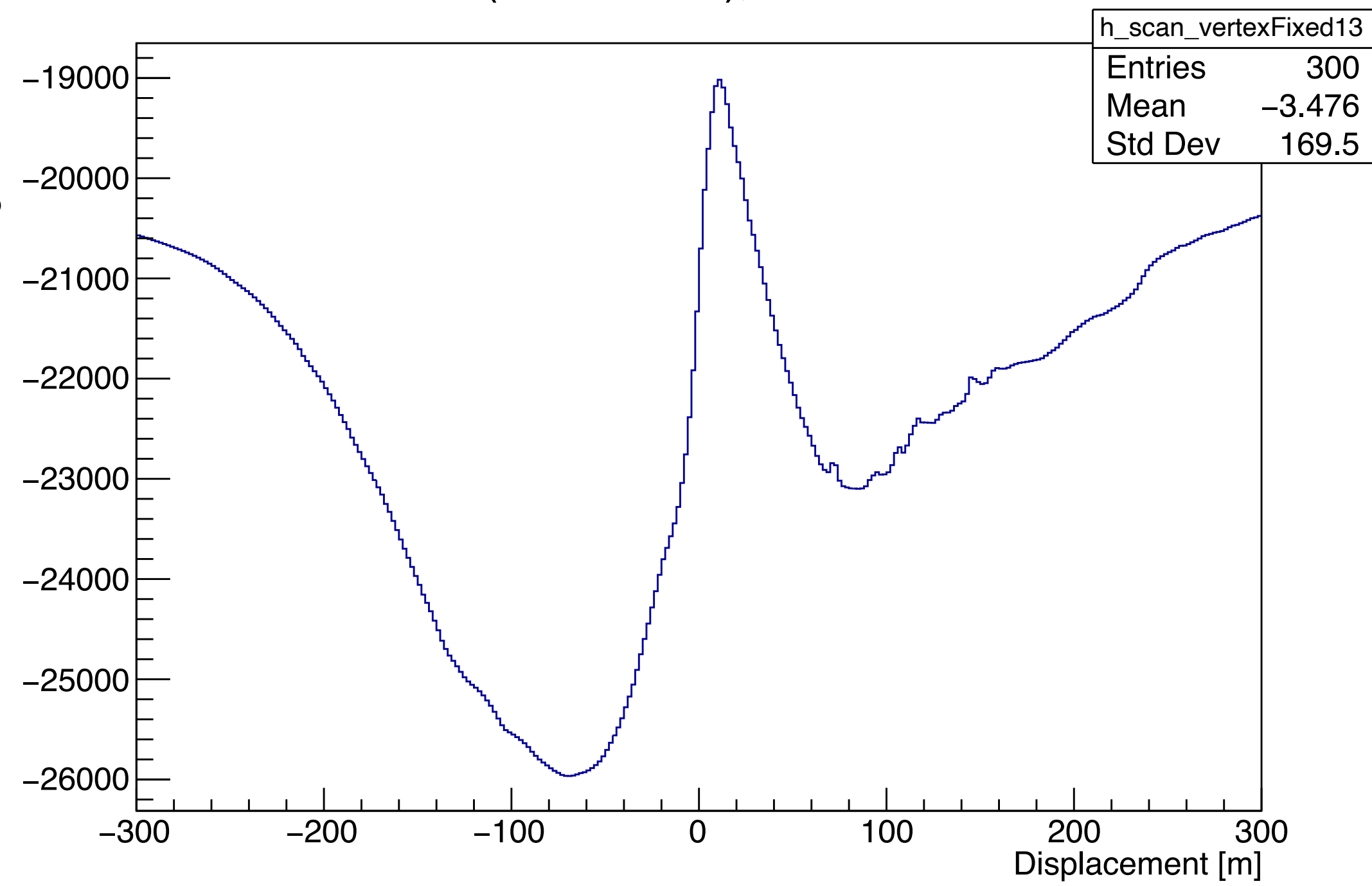
Lik scan (vertex fixed), len:40 maxLik:35



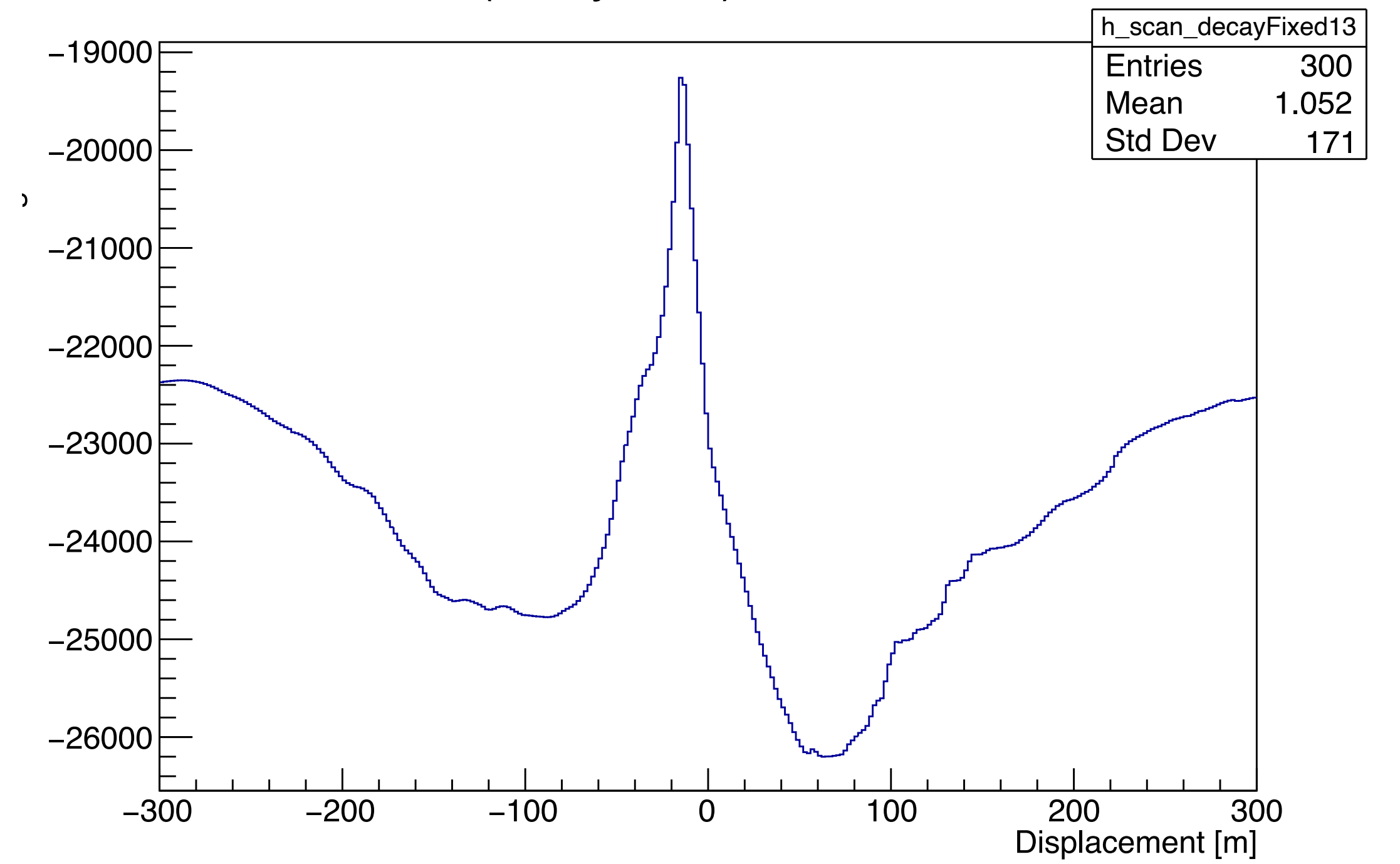
Lik scan (decay fixed), len:40 maxLik:-39



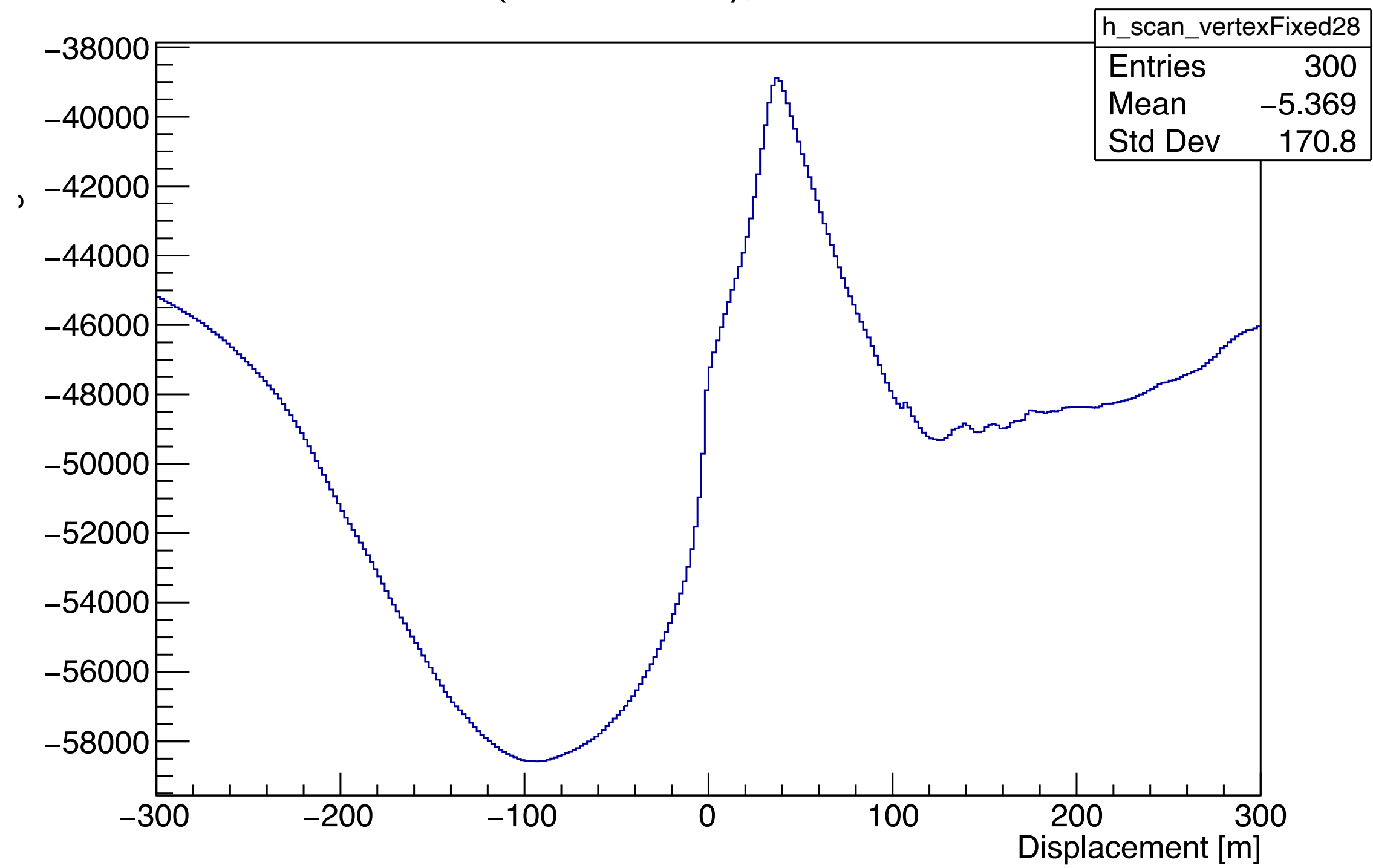
Lik scan (vertex fixed), len:15 maxLik:11



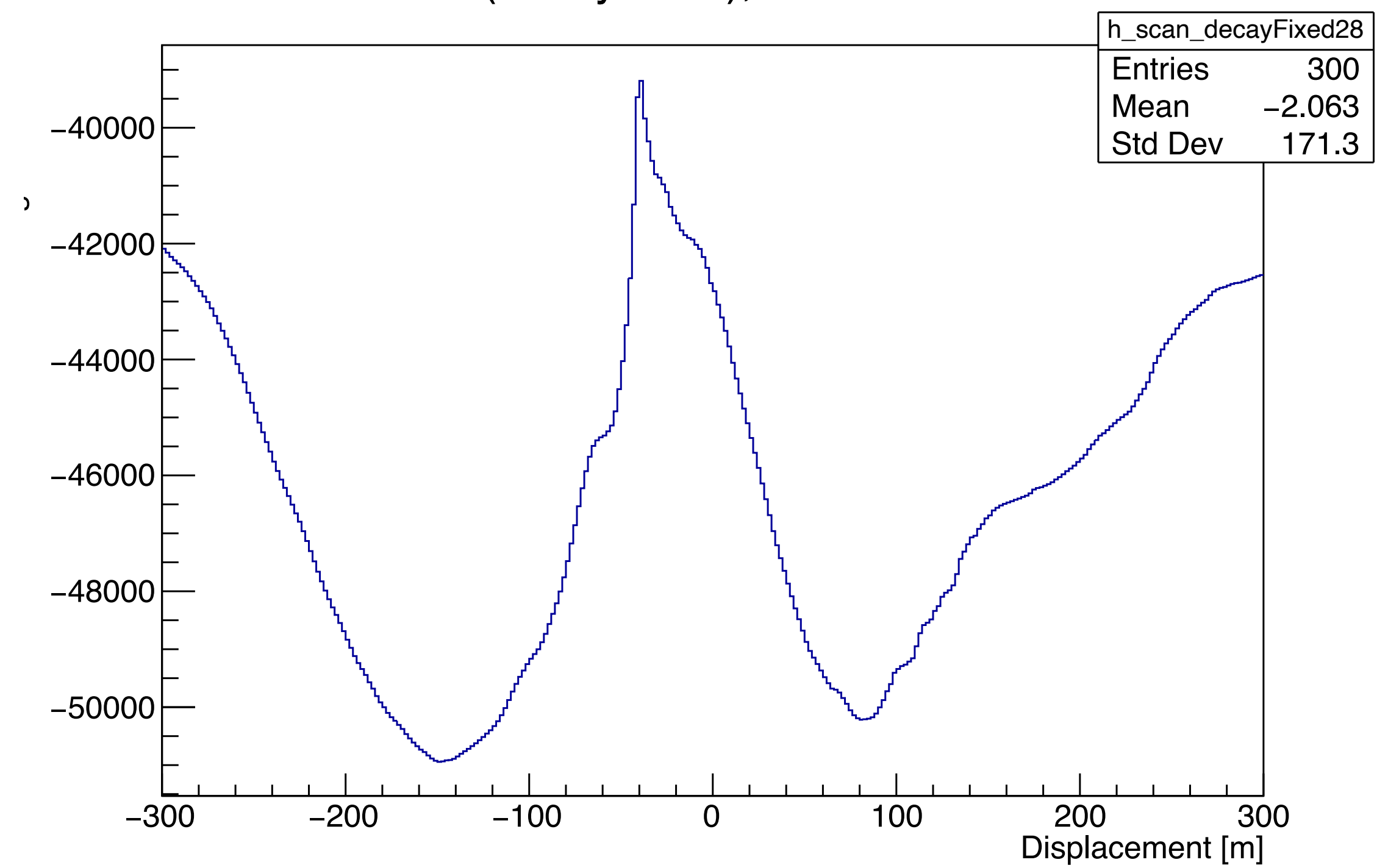
Lik scan (decay fixed), len:15 maxLik:-15



Lik scan (vertex fixed), len:39 maxLik:37



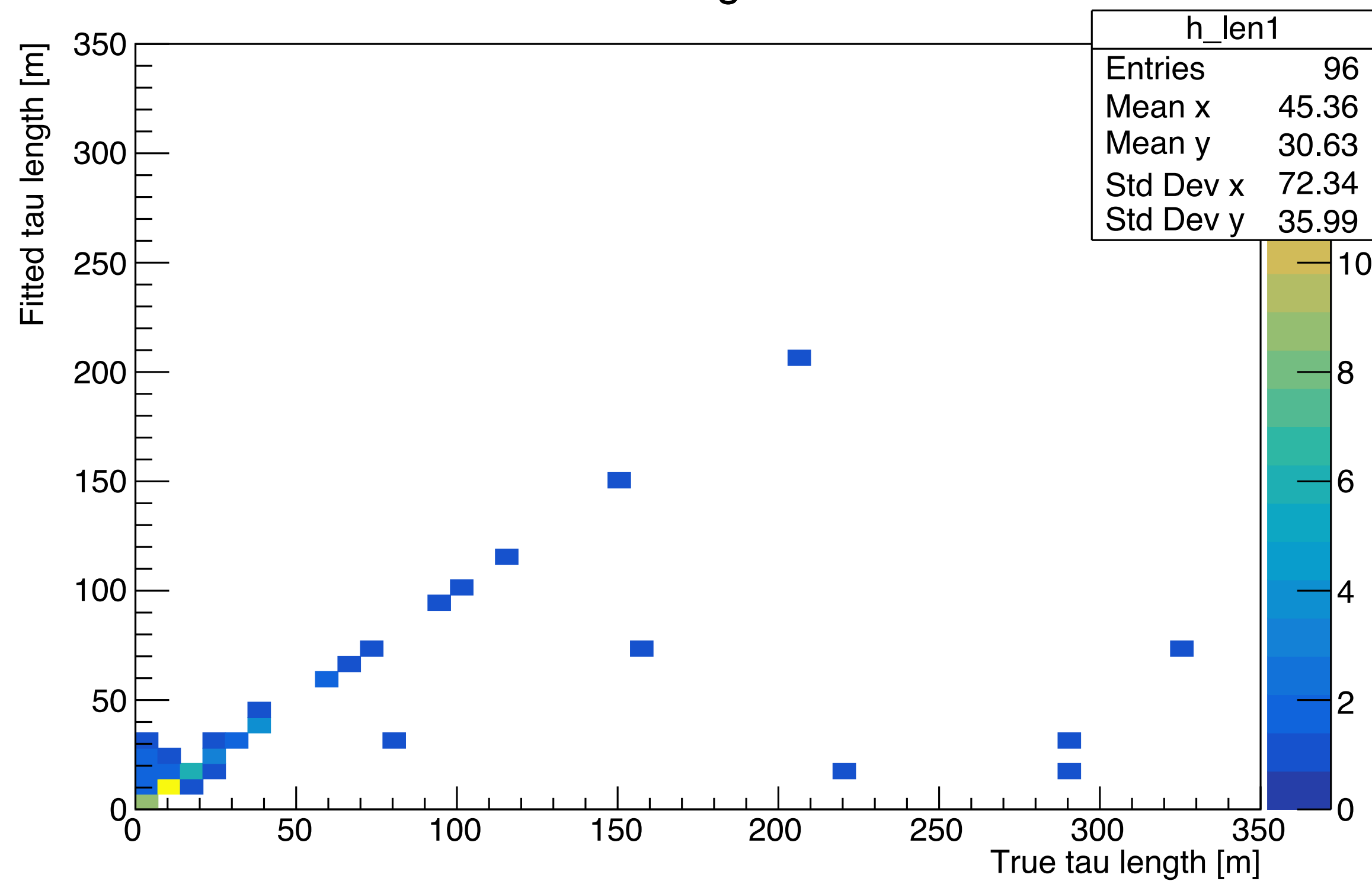
Lik scan (decay fixed), len:39 maxLik:-39



Result

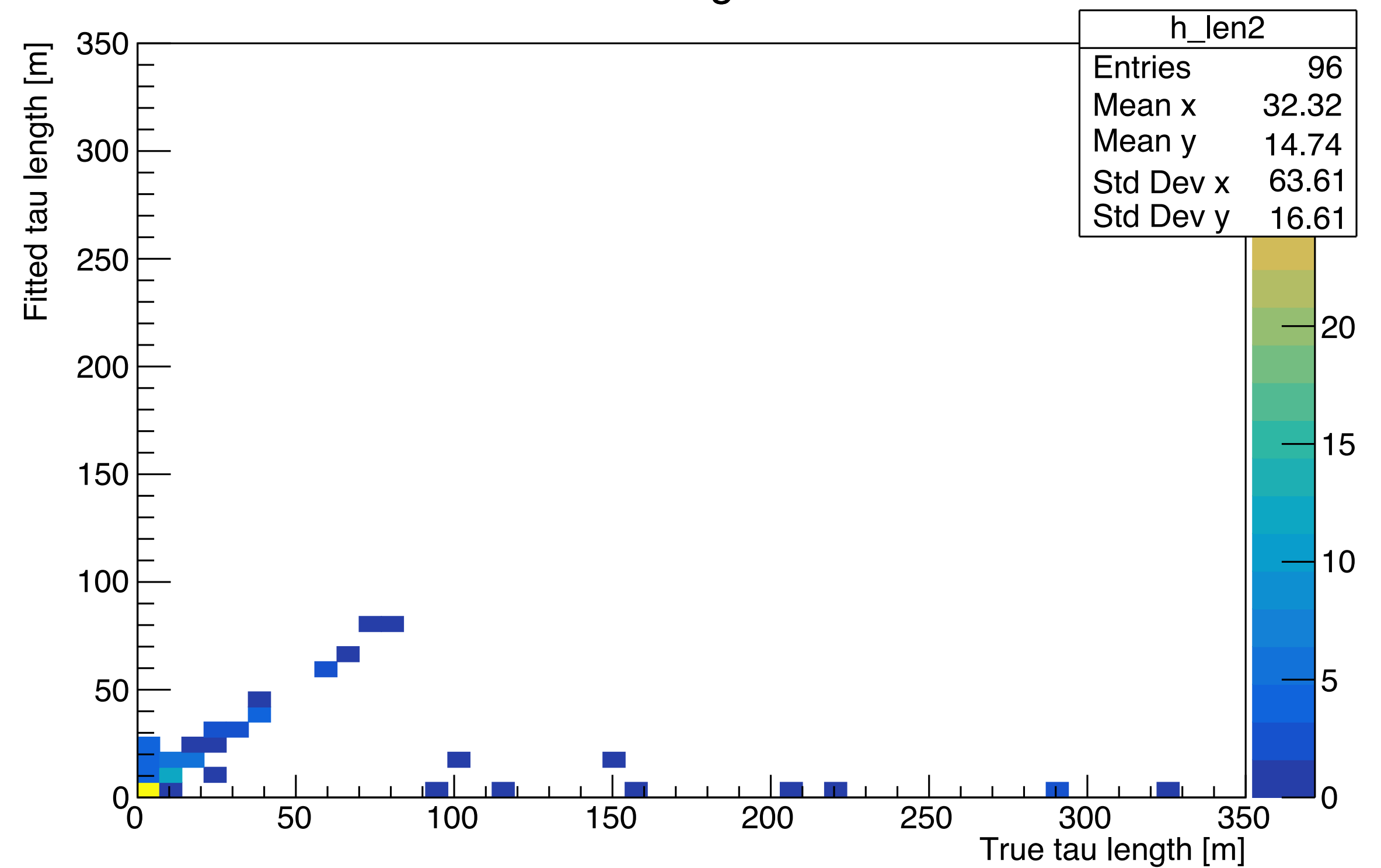
Vertex fixed

Tau length fit



Decay fixed

Tau length fit



Time for each fit

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