Discussions & Progress report
(CALOROCDigi, reconstruction, and Edep -> Npe)

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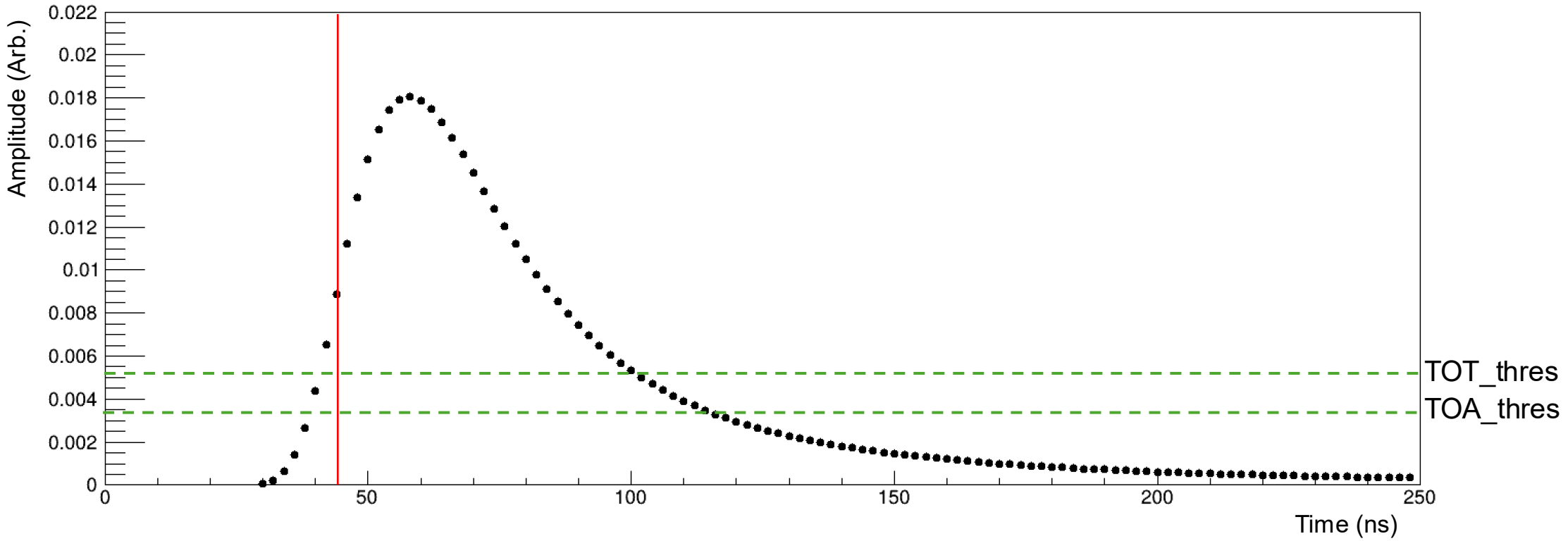
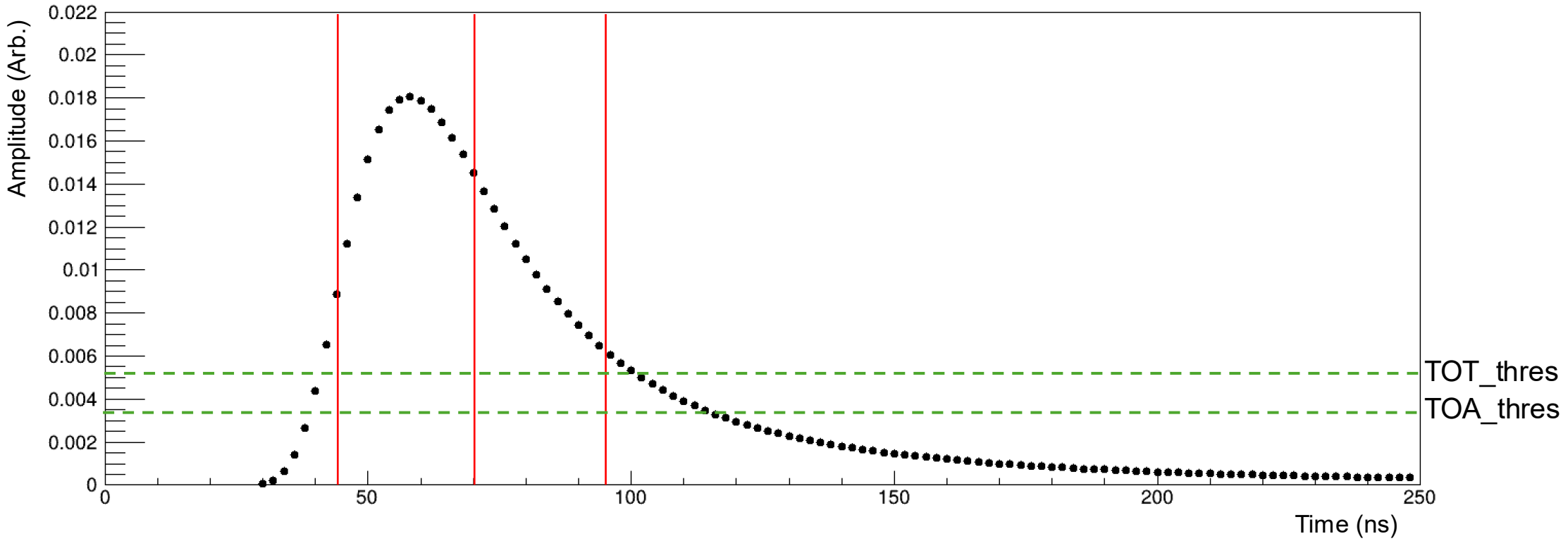
A vector of structs as a buffer-like object



std::vector<RawEntry>

ADC{0.0087}	ADC{0}	ADC{0}	ADC{0}	ADC{0}	ADC{0}	ADC{0}
TOA{5.80}	TOA{0}	TOA{0}	TOA{0}	TOA{0}	TOA{0}	TOA{0}
TOT{0}	TOT{0}	TOT{0}	TOT{0}	TOT{0}	TOT{0}	TOT{0}

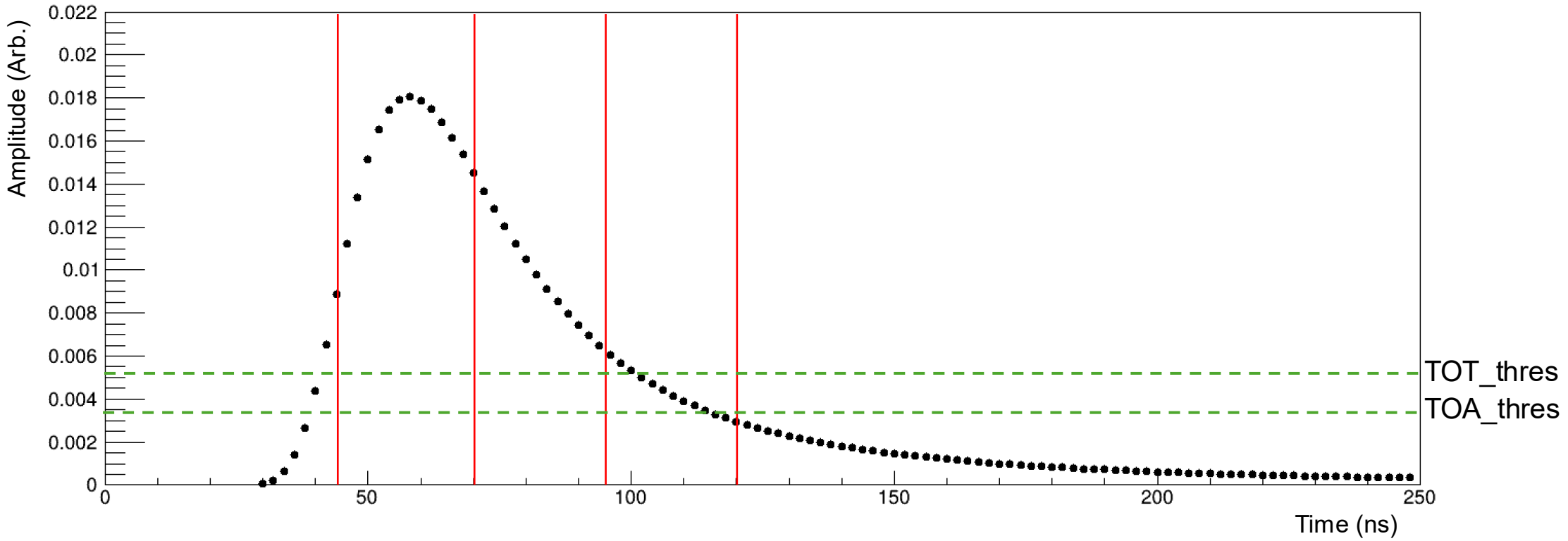
A vector of structs as a buffer-like object



std::vector<RawEntry>

ADC{0.0087}	ADC{0.0144}	ADC{0.0064}	ADC{0}	ADC{0}	ADC{0}	ADC{0}
TOA{5.80}	TOA{0}	TOA{0}	TOA{0}	TOA{0}	TOA{0}	TOA{0}
TOT{0}	TOT{0}	TOT{0}	TOT{0}	TOT{0}	TOT{0}	TOT{0}

A vector of structs as a buffer-like object



std::vector<RawEntry>

ADC{0.0087}	ADC{0.0144}	ADC{0.0064}	ADC{0.0031}	ADC{0}	ADC{0}	ADC{0}
TOA{5.80}	TOA{0}	TOA{0}	TOA{0}	TOA{0}	TOA{0}	TOA{0}
TOT{**63.2**}	TOT{0}	TOT{0}	TOT{0}	TOT{0}	TOT{0}	TOT{0}

E_{par}, η_{par}-dependent sampling fraction (SF)

- Have started working on a new reconstruction algorithm that reconstructs the particle information from the CALOROC output.
- We have a well-known issue, which is the E_{par}, η_{par}-dependent SF. In the new reconstruction algorithm, this should be applied as an attenuation-corrected ADC sum/TOT and TOA difference-dependent SF.
  - Studying their correlations with the E_{par}, and η_{par}.

Implementing SFs and Edep -> Npe factors

```
auto& serviceSvc = algorithms::ServiceSvc::instance();
sampFrac = serviceSvc.service<EvaluatorSvc>("EvaluatorSvc")->compile(m_cfg.sampFrac, hit_to_map);
```

- It seems that the varying SF and Edep -> Npe factors should be implemented by a user-defined evaluation tool as shown above.
- Studying how it works as well. Once this is understood, a PR to implement the Edep -> Npe factors will be submitted/discussed soon.