

Ikarus::LinearElastic
::calculateScalarImpl

Ikarus::NonLinearElastic
::calculateScalarImpl

Ikarus::KirchhoffLoveShell
::calculateScalarImpl

Ikarus::Volume::calculate
ScalarImpl

```
graph LR; A[Ikarus::LinearElastic::calculateScalarImpl] --> D[Ikarus::Volume::calculateScalarImpl]; B[Ikarus::NonLinearElastic::calculateScalarImpl] --> D; C[Ikarus::KirchhoffLoveShell::calculateScalarImpl] --> D;
```

The diagram illustrates a design pattern where three different material models (LinearElastic, NonLinearElastic, and KirchhoffLoveShell) share a common implementation for the calculateScalarImpl function. Each model's implementation is represented by a box on the left, and a single box on the right represents the shared implementation. Arrows point from each of the three left boxes to the right box, indicating that all three models utilize the same underlying calculation logic.