

Re: Breaking change in SpaceCharge service

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- 1 Breaking change on SpaceCharge service provider

Breaking change on SpaceCharge service provider

As part of optimisation for SpaceCharge service provider implementations, I propose the following **interface change**:

```
std::vector<double> GetPosOffsets  
    (double xVal, double yVal, double zVal) const;  
std::vector<double> GetEfieldOffsets  
    (double xVal, double yVal, double zVal) const;
```

to be replaced by:

```
geo::Vector_t GetPosOffsets(geo::Point_t const& point) const;  
geo::Vector_t GetEfieldOffsets(geo::Point_t const& point) const;
```

where `geo::Point_t` and `geo::Vector_t` are 3D vector types from ROOT `GenVector`, defined in `larcore/SimpleTypesAndConstants/geo_vectors.h`.

New code is in branch `feature/gp_SpeedUpSpaceCharge` (larevt, larsim, uboonecode and dunetpc).

Summary

- I would like to introduce a breaking change in `SpaceCharge` service provider