

VXD digitization

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Intro

- Based on the code from Lyon group (thanks to Jessy Daniel, Gaelle Boudoul, and others).
- The original code creates space points after the digitization but the individual pixels are not stored.
- We have updated the code to store the individual pixels in a separate branch:

root [1] events-

```
>Scan("VXDTrackerPixels.position.x:VXDTrackerPixels.position.y:VXDTrackerPixels.position.z:VXDTrackerPixels.dv:VXDTrackerPixels.dv")
```

```
*****
```

```
*   Row   * Instance * VXDTracke * VXDTracke * VXDTracke * VXDTracke * VXDTracke *
```

```
*****
```

*	0 *	0 *	-28.90408 *	51.141826 *	44.325000 *	246 *	1773 *
*	0 *	1 *	-28.92717 *	51.132259 *	44.325000 *	247 *	1773 *
*	0 *	2 *	-4.285361 *	-12.57746 *	-1.700000 *	-11 *	-68 *
*	0 *	3 *	-4.262264 *	-12.58703 *	-1.700000 *	-10 *	-68 *
*	0 *	4 *	-4.262264 *	-12.58703 *	-1.675000 *	-10 *	-67 *
*	0 *	5 *	-4.239167 *	-12.59659 *	-1.675000 *	-9 *	-67 *
*	0 *	6 *	-4.239167 *	-12.59659 *	-1.650000 *	-9 *	-66 *
*	0 *	7 *	-4.216070 *	-12.60616 *	-1.650000 *	-8 *	-66 *

Overlay of 100 events for a sensor

