

# Testing Current ROI finding in SPNG

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# Introduction

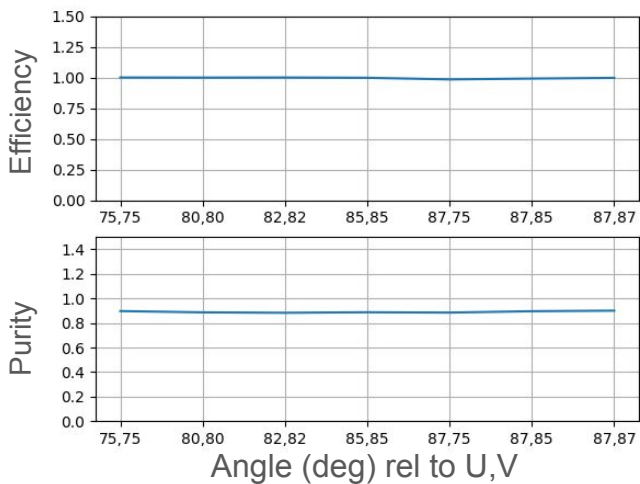
Testing 3 ROI-finding setups

- Decon → Filtering → Treshold ROIs → MP2/3 → DNNROI (Dense/MP2/3)
- Decon → Filtering → DNNROI (Dense info only)
- Decon → Filtering → DNNROI (Dense) → MP2/3 → DNNROI (Dense/MP2/3)

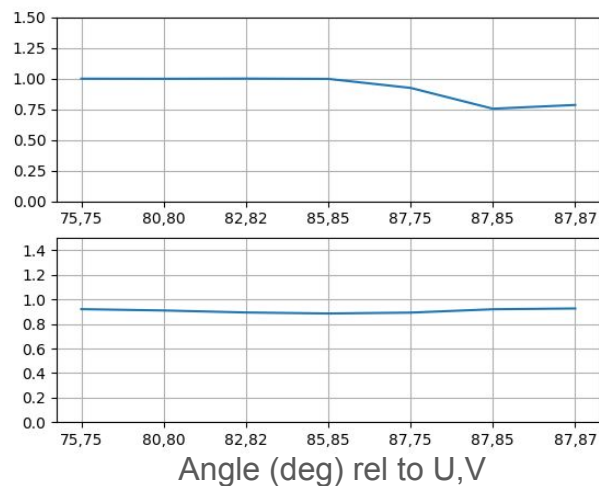
Each trained for 10 epochs on ~500 events

# Some results – U Plane

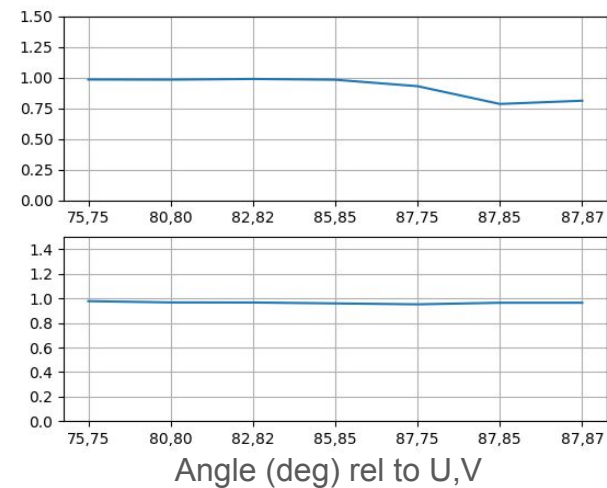
## Thresh + DNNROI



## Dense DNNROI

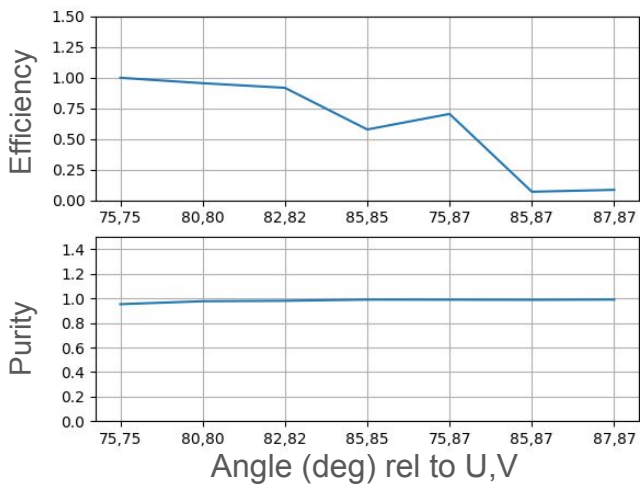


## DNNROIx2

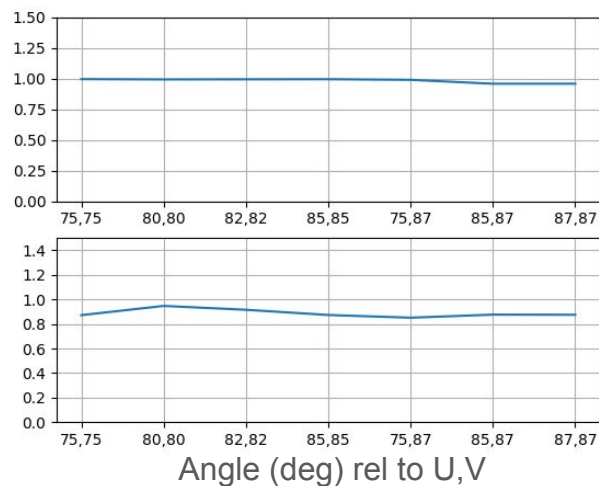


# Some results – V Plane

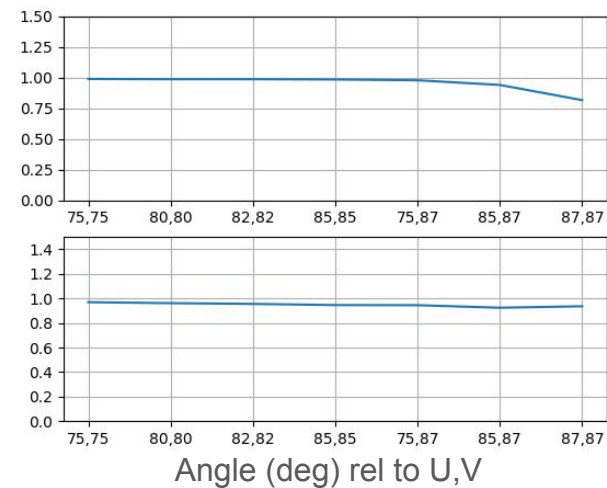
## Thresh + DNNROI



## Dense DNNROI

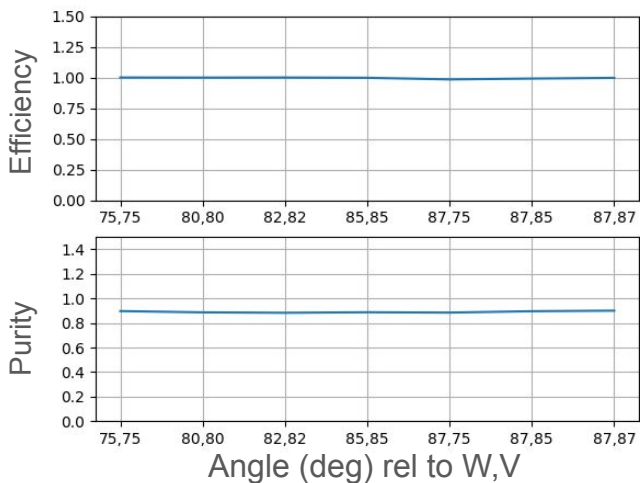


## DNNROIx2

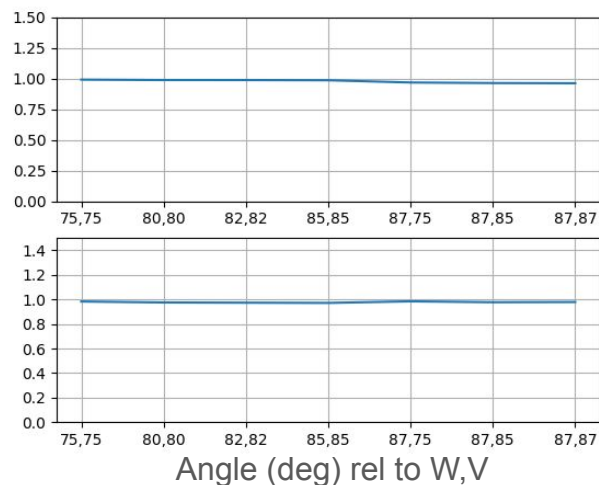


# Some results – W Plane

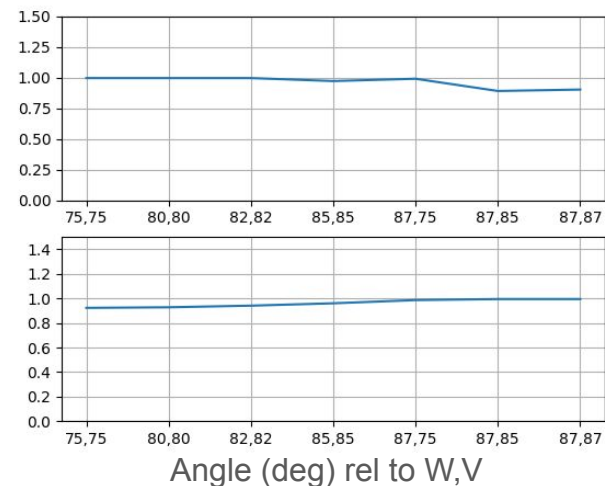
## Thresh + DNNROI



## Dense DNNROI



## DNNROIx2



Slightly higher purity, marginal gains in high-end

Thoughts

# Thoughts 2

Orange curve

From DNNROI paper

