

New VXDTF2 default validation plot



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Validation module modification

- In VXDTF2 validation plots (for instance `tracking/examples/VXDRedesign/evaluateVXDTF2.py`) was produced fake rate plots in function of ϕ and $\tan \lambda$ only .
- So, added following lines in:
`tracking/scripts/tracking/harvesting_validation/pr_side_module.py`

```
save_fake_rate_by_seed_pt_profile = refiners.save_profiles(  
    select={  
        'is_fake': 'fake rate',  
        'seed_pt_estimate': 'seed p_{t}',  
    },  
    y='fake rate',  
    y_binary=True,  
    outlier_z_score=5.0,  
    lower_bound=0,  
    upper_bound=1.7,  
)
```

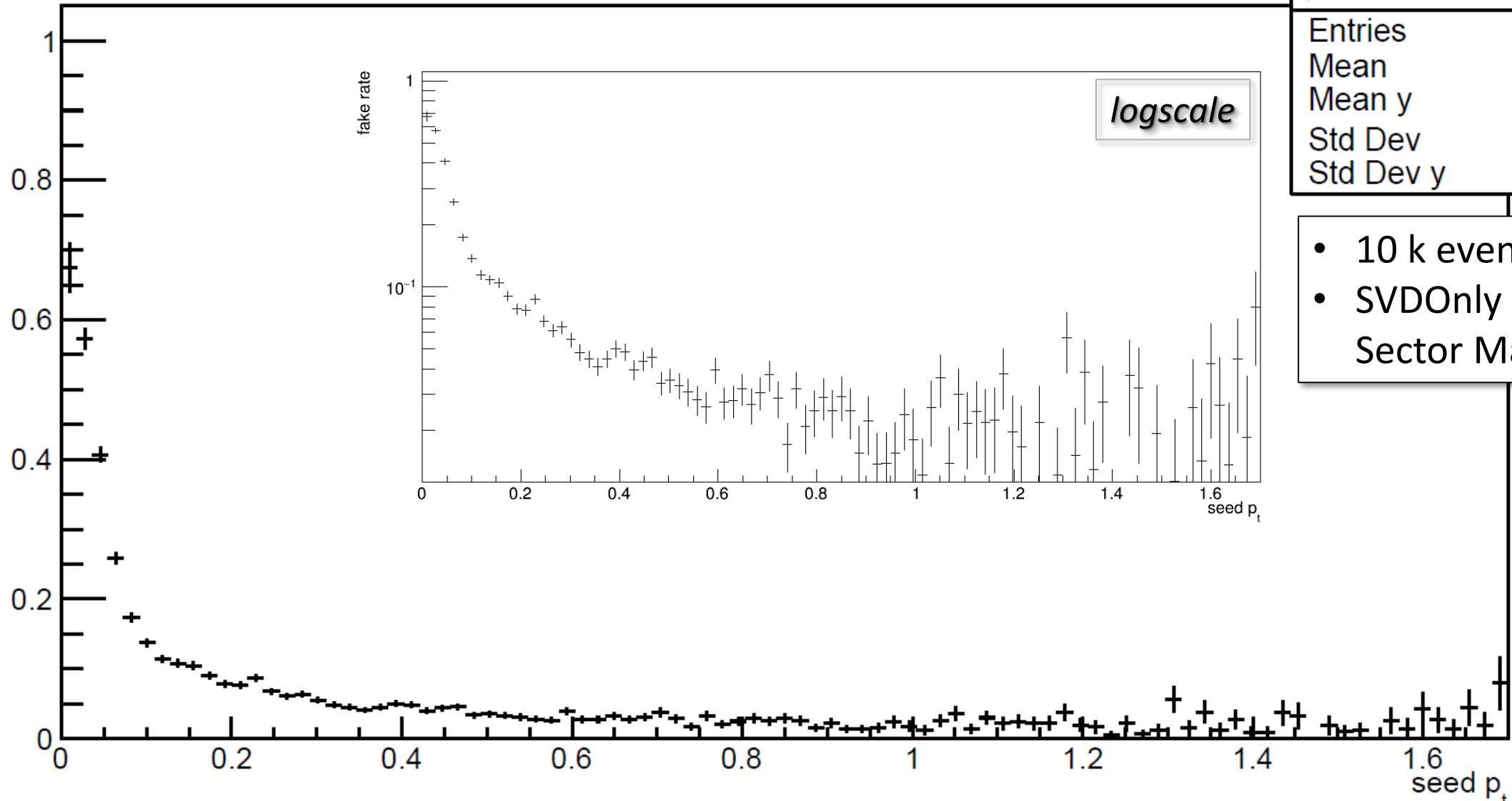
Used in
CombinedTrackingValidationModule,
inside «harvesting validation folder»



Fake rate VS p_T

Profile of fake rate by seed p_t from PRSideTrackingValidationModule

fake rate



PRSideTrackingValidationModule_fake_rate_by_seed_p_t_profile	
Entries	100175
Mean	0.4135
Mean y	0.07776
Std Dev	0.3113
Std Dev y	0.2678

- 10 k events
- SVDOnly default Sector Map

Proposal

Can be useful to insert in the same way:

- Tracking efficiency VS θ ?
- Fake rate VS θ ?