

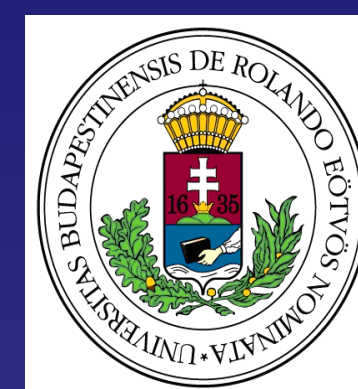


astro-ph/1701.08748



On the realistic validation of photoz ...

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Task:

Develop an user-friendly environment enabling researchers (including non-astronomers) to test existing learning algorithms and design robust new ones.

Question:

How can we quantify the performance of photoz methods on real photometric samples?

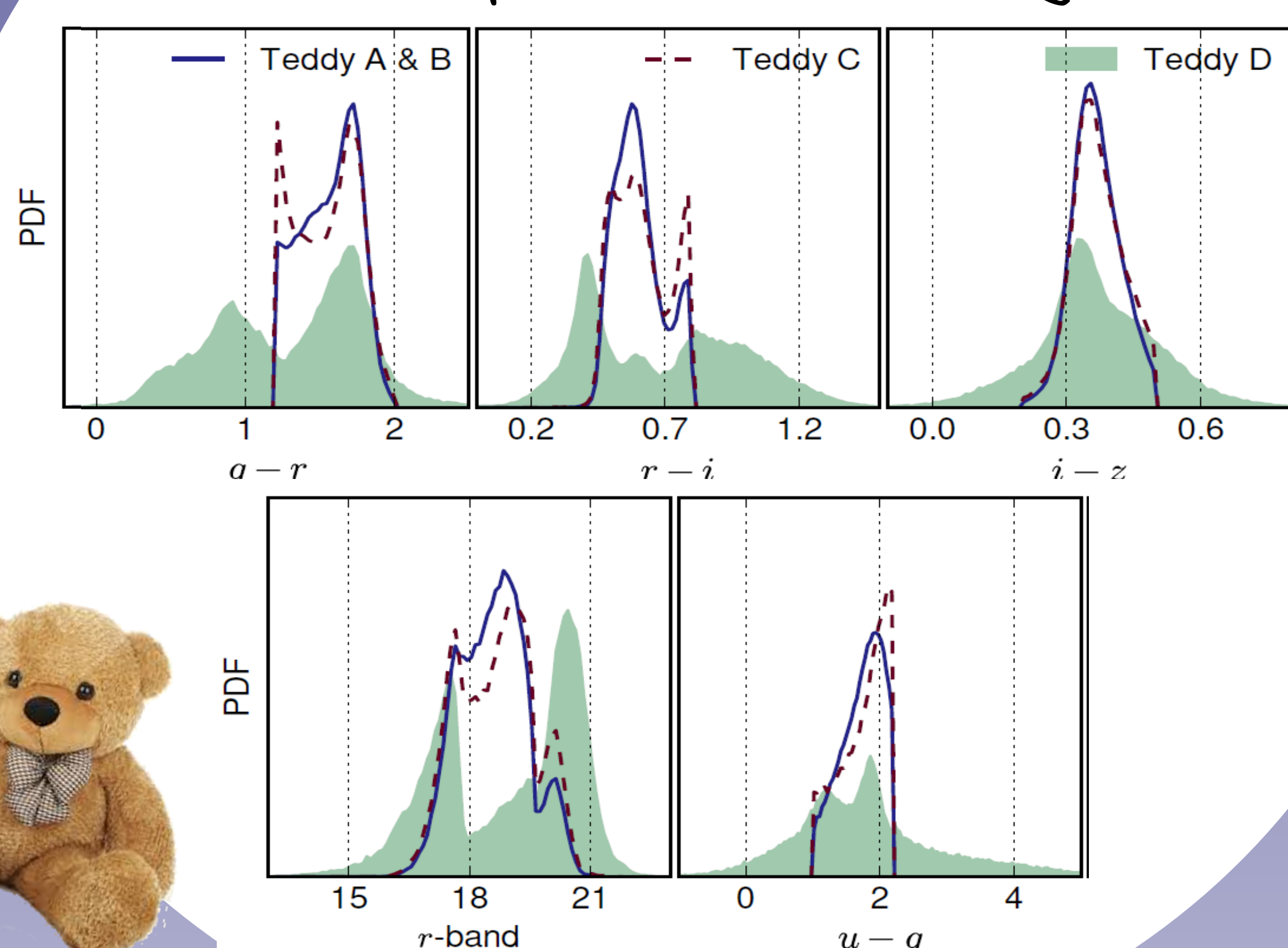
Identified bottlenecks:

1. Lack of complete **coverage** in color space
2. Distinct **photometric error** distributions

The catalogs:

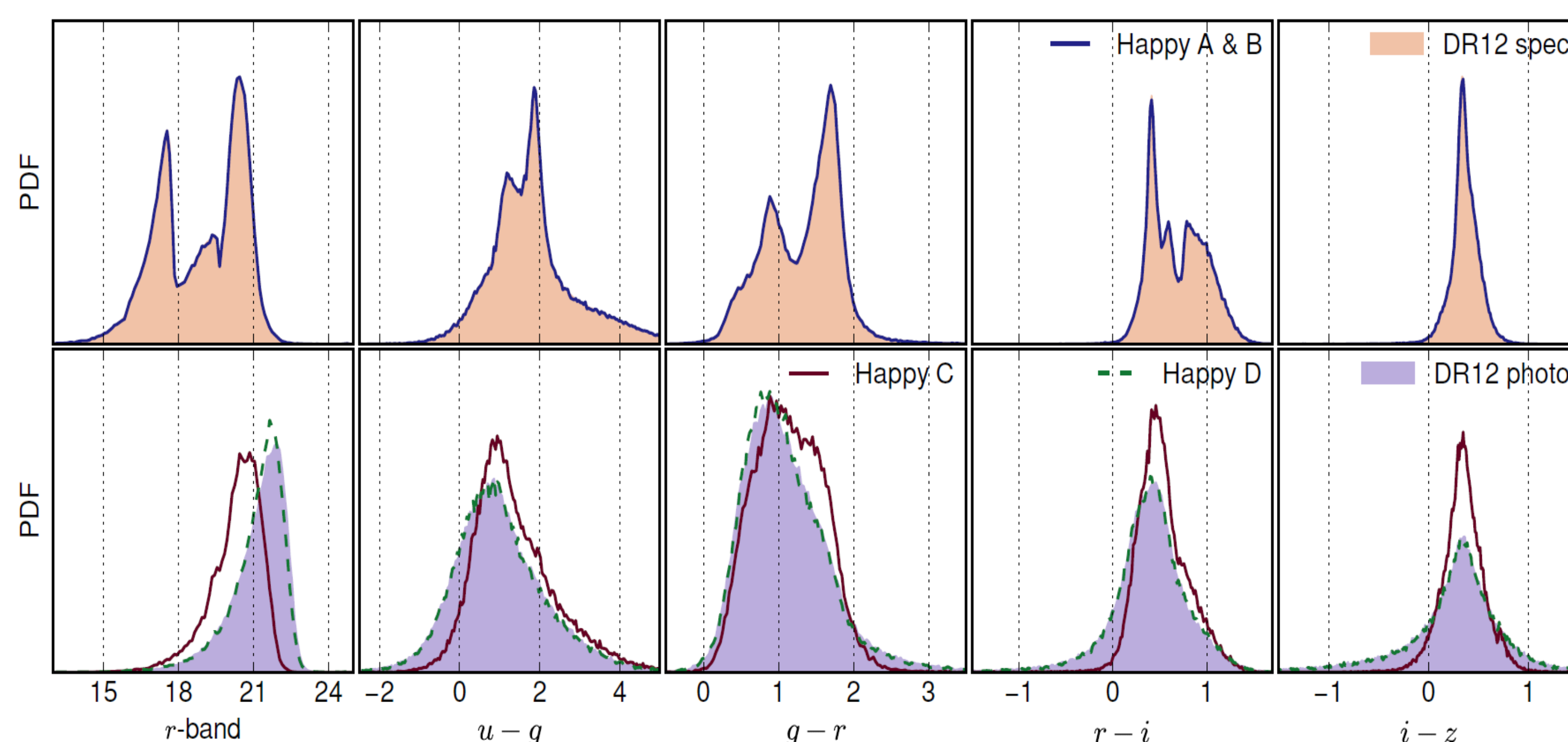
Teddy

Incomplete coverage



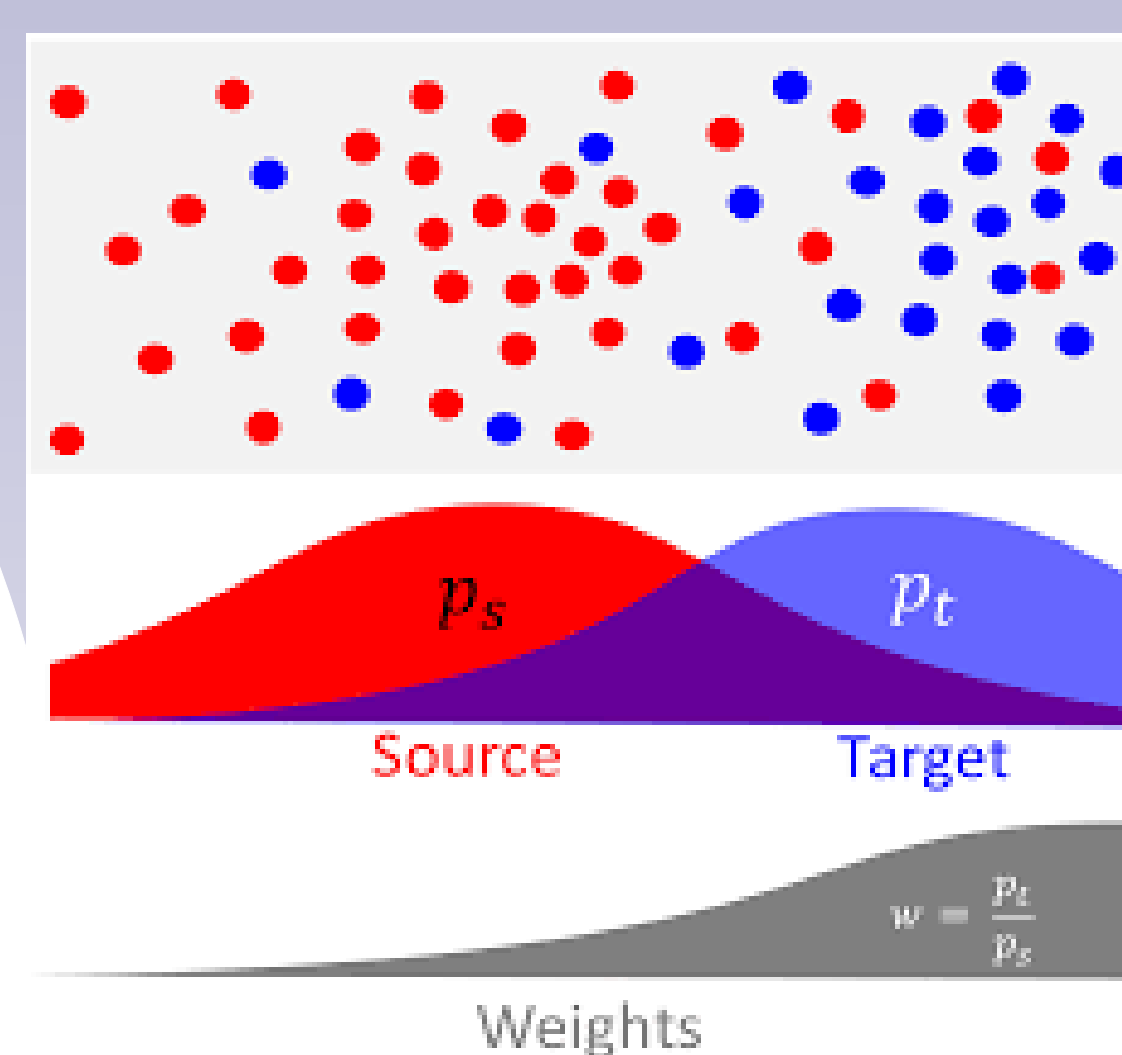
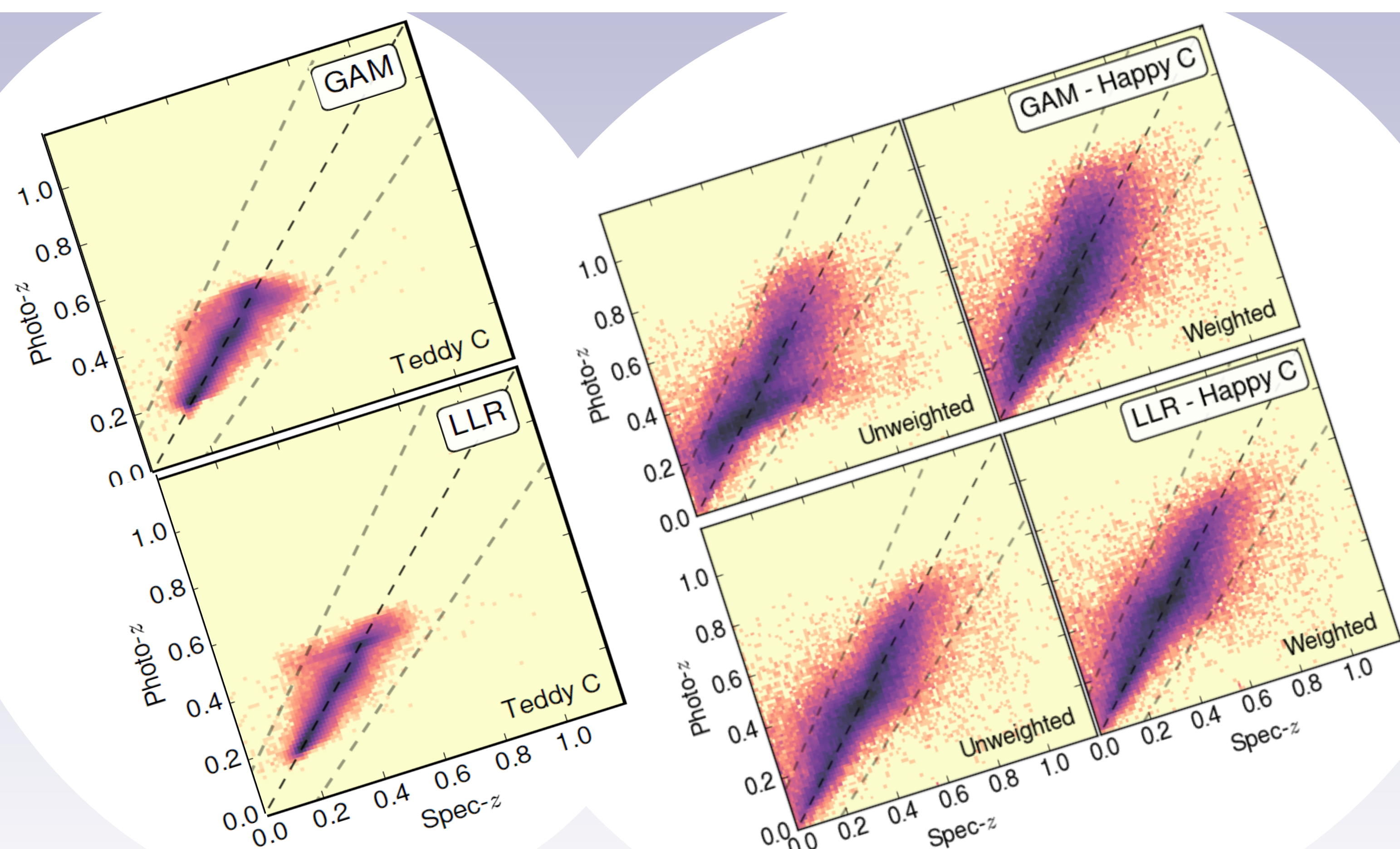
Happy

Coverage, shape and photometric errors



All photometry from SDSS
All entries with measured spec-z

... or, why Teddy will never be Happy?*



Domain Adaptation will only handle differences on local densities – not enough to account for all effects present on real photometric samples

challenge

How does modern photoz codes perform under these conditions?

