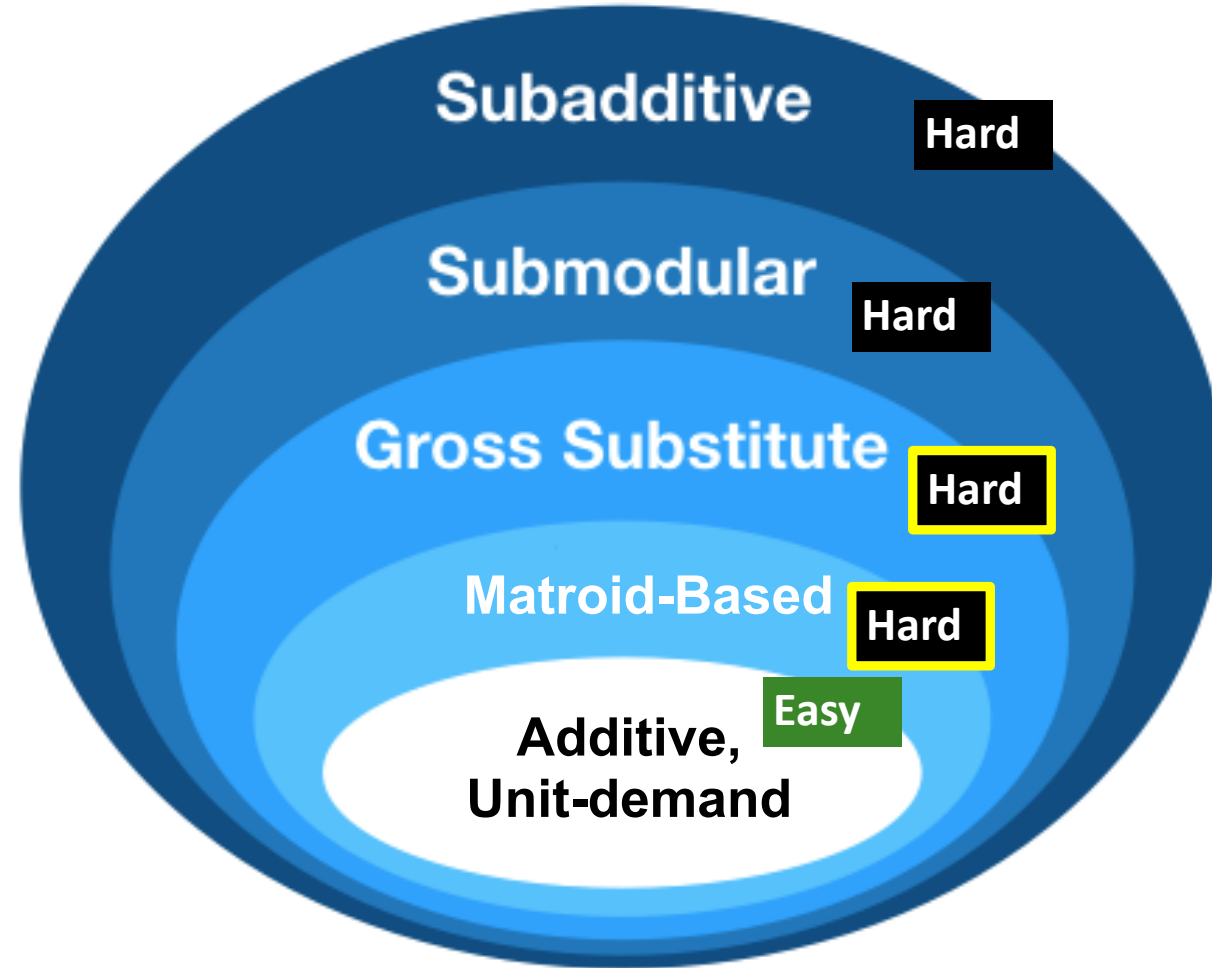


The Problem

- MDMDP(V): Multi-Dimensional Mechanism Design Problem for class V
- Revenue maximization approximation
- Single buyer, single seller
- Buyer's values drawn from a distribution



New Hardness of Approximation Results



Our Results

Approximation-
preserving reduction
(CDW '13)

Approximation-
preserving reduction (this
paper)

MDMDP

ODP



Hard instance for
ODP(matroid-based)
(even to get non-trivial
approximation)

Approximation-
preserving reduction
(CDW '13)

Approximation-
preserving reduction (this
paper)

MDMDP



ODP



Found

Hard instance for
ODP(matroid-based)
(even to get non-trivial
approximation)