49. Zvi Artstein and Roger J-B Wets, **Decentralized allocation of resources among many produces.** J. Mathematical Economics 18 (1989), 303-324.

Abstract. We reconsider the question of allocating resources in large teams using decentralized procedures. Our assumption on the distribution of producers is that it approximates a given underlying distribution in producers space, thus we relax prior approaches which utilize replicas or iid samplings. We examine when solving the allocation problem for the underlying distribution yields an appropriate solution to the specific sample. We then show how market-like mechanisms may be used to get a decentralized decision process which is asymptotically optimal.

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