

Vienna Lectures on Mechanism Design with Applications

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1. Optimal Auctions (Monday 9:00 – 12:00)

- a. A simple example
- b. More general settings
- c. Auctions vs negotiations
- d. Further readings

2. A Geometric Approach (Monday and Tuesday 13:30 – 16:00)

- a. Introduction
- b. A simple auction example
- c. Social choice implementation
- d. Extensions and applications
- e. Further readings

3. Optimal Auctions with Investments (Wednesday 9:00 – 11:00)

- a. A simple example
- b. More general settings
- c. Auctions vs negotiations revisited
- d. Further readings

4. Bayesian vs DS Implementation (Thursday 9:00 – 12:30)

- a. A simple example
- b. More general settings
- c. Further readings

5. Application to Spectrum Auctions (Thursday 13:30 – 15:30)

- a. A simple example
- b. The simultaneous ascending auction
- c. Core-selecting auctions
- d. Further readings

6. Application: Auctioneering (Friday 9:00 – 12:30)

- a. The HPB format
- b. Designing simple auctions
- c. Other applications

Readings

- Bichler, M., Goeree, J. K., Mayer, S. and Shabalin, P. (2014) "Simple Auctions for Complex Sales" *Telecommunications Policy*, 38(7), August, 613-622.
- Brunner, C., Goeree, J. K., Holt, C. A. and Ledyard, J. O. (2010) "An Experimental Test of Flexible Combinatorial Spectrum Auction Formats," *American Economic Journal: Micro-Economics*, 2(1), 2010, 39-57.
- Chen, Y. and Goeree, J. K. (2012) "Stable Allocations and Market Design," *Nature*, 492, December, 54-55.
- Gershkov, A., Goeree, J. K., Kushnir, A., Moldovanu, B. and Shi, X. (2013) "On the Equivalence of Bayesian and Dominant-Strategy Implementation" *Econometrica*, 81(1), January 2013, 197-220.
- Goeree, J. K. and Kushnir (2015) "A Geometric Approach to Mechanism Design," under revision for the *American Economic Review*
- Goeree, J. K. and Lien, Y. (2015) "On the Impossibility of Core-Selecting Auctions" *Theoretical Economics*, forthcoming.
- Goeree, J. K. and Lien, Y. (2014) "An Equilibrium Analysis of the Simultaneous Ascending Auction," *Journal of Economic Theory*, 153, September, 506-533.
- Goeree, J. K. and Holt, C. A. (2010) "Hierarchical Package Bidding: A Paper & Pencil Combinatorial Auction," *Games and Economic Behavior*, 70(1), 2010, 146-169.