

PhD program in Statistics

**DSS Statistics Seminar**

**October 27, 2023, 12:00**

**In person** Room 34 (CU002)

**Webinar** [https://uniroma1.zoom.us/j/86881977368?pwd=SWRFc](https://uniroma1.zoom.us/j/86881977368?pwd=SWRFcVFjMDZTa0lXZk05TE1zNm5adz09)

[VFjMDZTa0lXZk05TE1zNm5adz09](https://uniroma1.zoom.us/j/86881977368?pwd=SWRFcVFjMDZTa0lXZk05TE1zNm5adz09)

**Passcode: 432940**

# Testing for treatment effect in multitreatment case

***Pier Luigi Conti***

*Sapienza University of Rome*

In the present seminar, the problem of testing for the presence/absence of a treatment effect is discussed. A new test-statistic, essentially based on the same principles as the classical Kruskal-Wallis test, is introduced, and its theoretical properties are studied. The good behaviour of the proposed test in terms of both significance level and power, with respect to other commonly used test procedures, is shown through a simulation study. Test-statistics for stochastic dominance problems are also studied.



**SAPIENZA**  
UNIVERSITÀ DI ROMA