

Seminar:

FOUR PART CHORALES
(171-190)

J.S.Bach (1685-1750)

The image shows two systems of musical notation for four-part chorales. The first system is titled 'Gedult wart du, Jesu Christ' and is numbered 51. The second system is titled 'Wann mein Stündlein vorhanden ist' and is numbered 52. Both systems consist of a vocal line (treble clef) and a piano accompaniment (bass clef). The music is in C major and common time. The piano accompaniment features a characteristic 'walking bass' pattern.

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Tuesday, October 5th 2021, 04:00 pm

Aula Scuola Specializzazione, DIFC, Viale delle Scienze Ed. 18

High-Order Statistical Dependencies in Complex Systems: Applications to Physiology, Music and Finance

(JPEG; max 300 x 250)

Dr. Tomas Scagliarini, Università degli Studi di Bari

Keywords: Information transfer, Transfer Entropy, Granger causality

The abstract of the seminar can be viewed at the following [link](#)

Abstract: The analysis of statistical dependencies is crucial for understanding the staggering complexity of structures and behaviours manifested in biological, economic and social systems. When a system has more than two variables, the pairwise description fails to detect high-order effects, which could be important in many applications. In this seminar we address the problem of how to dissect statistical dependencies in multi-body systems, applying different methodologies to various real world scenarios, spanning from physiological data, financial markets, and the 4 voices chorales from J.S.Bach.