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## Laboratory of numerical applications

### Finalità

To make the students acquainted with the use of the Matlab programming environment by supplying an applicative knowledge on data analysis and processing procedures with particular reference to the arguments of the Applied Physics. The entire course consists in computer laboratory lectures and practical exercise.

### Programma

Introduction to Matlab. Fundamental operations and array. Script file, function and data types. Matlab Graphics . Programming examples with reference to typical problems of applied Physics: data interpolation and extrapolation, function estimation, data filtering.

### Testi consigliati

W. PALM: "Matlab 6 per l'ingegneria e le scienze", McGraw-Hill.

F. P. INCOPRERA, D P DE WITT: " Fundamentals of Heat and Mass Trasfer ", John Wiley & Sons, New York, 1985.