

## REALIZABLE LISTS VIA THE SPECTRA OF BLOCK MATRICES

Expositor: Hans Nina (Universidad de Antofagasta, hans.nina@uantof.cl)

Autor/es: Hans Nina (Universidad de Antofagasta, hans.nina@uantof.cl); Luis Medina (Universidad de Antofagasta, luis.medina@uantof.cl)

In this talk, we present spectral results for matrices partitioned into higher order blocks, where not all blocks are necessarily square. Using these results sufficient conditions on a given list to be the list of eigenvalues of a nonnegative matrix are obtained and the corresponding matrix is constructed. In particular, spectral results for symmetric matrices are derived.