## ОБЪЕДИНЕННЫЙ ИНСТИТУТ ЯДЕРНЫХ ИССЛЕДОВАНИЙ Лаборатория теоретической физики им. Н. Н. Боголюбова



## Семинар «МАЛОЧАСТИЧНЫЕ СИСТЕМЫ»

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## PARTIAL WIDTHS OF A MULTI-CHANNEL RESONANCE

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It is suggested a method for finding the partial decay-widths for multi-channel resonances. The method is based on using the Jost matrices. These matrices can be either calculated (when the multi-channel potential is known) or found by fitting experimental data (when they are available). In both cases the procedure for obtaining the partial widths is the same and does not require any kind of integration or differentiation. The partial widths sum up to the total width and the corresponding branching ratios can be found as some algebraic combinations of the elements of the Jost matrices.