Abstract.

Study of the reaction $\pi^- p \to \omega\pi^-\pi^0 p$ at 18 GeV/c.

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The $\omega\pi^-\pi^0$ system goes dominantly through $\omega\rho^-(770)$ intermediate state. The partial wave decomposition shows the a2(1320) signal followed by a broad shoulder round 1.7 Gev in $J^{pc} = 2^{++}$ wave. The $J^{pc} = 2^{-+}$ wave shows peak in the 1.700 Gev region and has significant increase of phase, it indicates the $\pi_2(1670)$ decay to $\omega\rho$.

$J^{pc} = 0^{-+}$ wave peaks round 1.75 Gev and also has the growing phase towards slowly varrying in this region 2^{++} and 1^{++} waves. The parameters of this peak are similar to $\pi(1800)$ meson.

$J^{pc} = 4^{++}$ shows $a_4(2040) \to \omega\rho(770)$ decay.