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## Searches for Heavy Resonances Decaying into Bosons at CMS

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This presentation will cover the latest results from the CMS experiment on searches for heavy resonances decaying into bosons using data from Run 2. The analysis focuses on various final states, including those involving  $\gamma$ ,  $g$ ,  $W$ ,  $Z$ , and  $H$  bosons. These searches aim to identify potential new particles predicted by theories beyond the Standard Model, such as Higgs sector extensions and extra dimensions. The findings place stringent limits on the production cross-sections and masses of these hypothetical resonances, narrowing down the parameter space for new physics.

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