

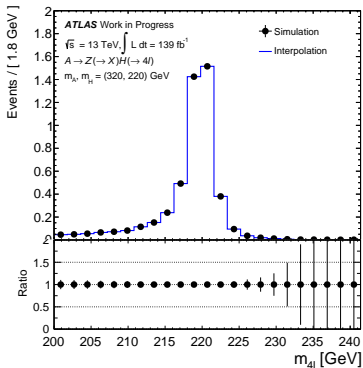
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## Weekly update

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- Interpolating the  $A \rightarrow Z(\rightarrow X)H(\rightarrow 4\ell)$  signal mass point using the MC samples.
- Interpolation is done in two steps:
  - Fixing “ $m_A - m_H$ ” and interpolate “ $m_H$ ” (711 out of 72 mass points)
  - Fixing “ $m_H$ ” and interpolating the “ $m_A - m_H$ ” or “ $m_A$ ” (7.9 mass points)
- Input parameters (A320H220, A320H220 ,A350H250) (220, 220, 250)

- Finalising the  $A \rightarrow ZH \rightarrow 4\ell + X$  interpolation, ans should do the  $R \rightarrow SH \rightarrow 4\ell + E_T^{\text{miss}}$
- Updated the diHiggs multilepton note for the  $4\ell$  analysis.