The effect of mergers in the white dwarf mass distribution

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Spectroscopic observations of a large amount of white dwarfs has allowed to derive the observational white dwarf mass distribution with accuracy (eg. PG survey, SDSS). This distribution shows a central peak around the value 0.6 M_{\odot} , but presents also small peaks at larger masses. We have built a toy model to study the impact of double degenerate systems and white dwarf mergers in the mass distribution and try to give an explanation for the higher mass population.