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Seismic cartography of white-dwarf interiors: how well can we constrain convective mixing?

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Probing internal properties of white-dwarf stars has been amongst the earliest objectives of asteroseismology. White-dwarf pulsators offer exciting opportunities to unravel their inner structure and dynamics from the observed low-degree, low-order gravity (g -)modes. We review the most recent efforts from our group to perform a complete seismic cartography of white-dwarf interiors of DB and DA pulsators. Such results constitute precious guidelines for modeling late stages of stellar evolution and better understanding their constitutive physics. We show how Gaia's input is essential in this context to validate any physical solution found.

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