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Nigel Pynn-Coates* (pynncoa2@illinois.edu), Department of Mathematics, University of Illinois at Urbana–Champaign, 1409 W Green St, Urbana, IL 61801. *Model companions of theories of valued differential fields*. Preliminary report.

The model companion of the theory of monotone valued differential fields is already well understood. I will discuss ongoing work towards obtaining a similar model companion result in the setting of H -asymptotic valued differential fields, including positive results at the level of asymptotic couples and algebraic results, such as the existence of differential-henselizations, that may be useful. (Received September 17, 2018)