Note about information matrices options in Lavaan:

With ML, under structured h1.information option (fit@Options$h1.information = "structured"): “h1.information.expected” and “wls.v” are the same (also same as “h1.information”) but “h1.information.observed” is different.

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With ML, under structured h1.information option (fit@Options$h1.information = "unstructured"): all matrices are the same but they are different from the structured ones.

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