manBetaCIWald: Staging

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object <- lm(QUALITY ~ NARTIC + PCTGRT + PCTSUPP, data = nas1982)

Staging...

```
manBetaCIWald(object, type = "mvn")
```

```
#> Error in manBetaCIWald(object, type = "mvn"): could not find function "manBetaCIWald"
manBetaCIWald(object, type = "adf")
#> Error in manBetaCIWald(object, type = "adf"): could not find function "manBetaCIWald"
```

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References

R Core Team. (2022). R: A language and environment for statistical computing. R Foundation for Statistical Computing. Vienna, Austria. https://www.R-project.org/

$$\beta = \left[\left(\sigma_Y^2 \right)^{-1} \operatorname{diag} \left(\Sigma_{X,X} \right) \right]^{\frac{1}{2}} \Sigma_{X,X}^{-1} \sigma_{X,Y} \tag{1}$$

$$\Gamma_{\text{ADF}} = \sigma_{ijqh} - \sigma_{ij}\sigma_{qh} \tag{2}$$

$$\tilde{\Gamma}_{ADF} = \tilde{\sigma}_{ijgh} - \tilde{\sigma}_{ij}\tilde{\sigma}_{gh} \tag{3}$$

$$\hat{\Gamma}_{ADF} = \frac{n(n-1)}{(n-2)(n-3)} (\tilde{\sigma}_{ijgh} - \tilde{\sigma}_{ij}\tilde{\sigma}_{gh})
- \frac{n}{(n-2)(n-3)} \left(\tilde{\sigma}_{ik}\tilde{\sigma}_{jl} + \tilde{\sigma}_{il}\tilde{\sigma}_{jk} - \frac{2\tilde{\sigma}_{ij}\tilde{\sigma}_{gh}}{(n-1)} \right)$$
(4)