

Bilatéral

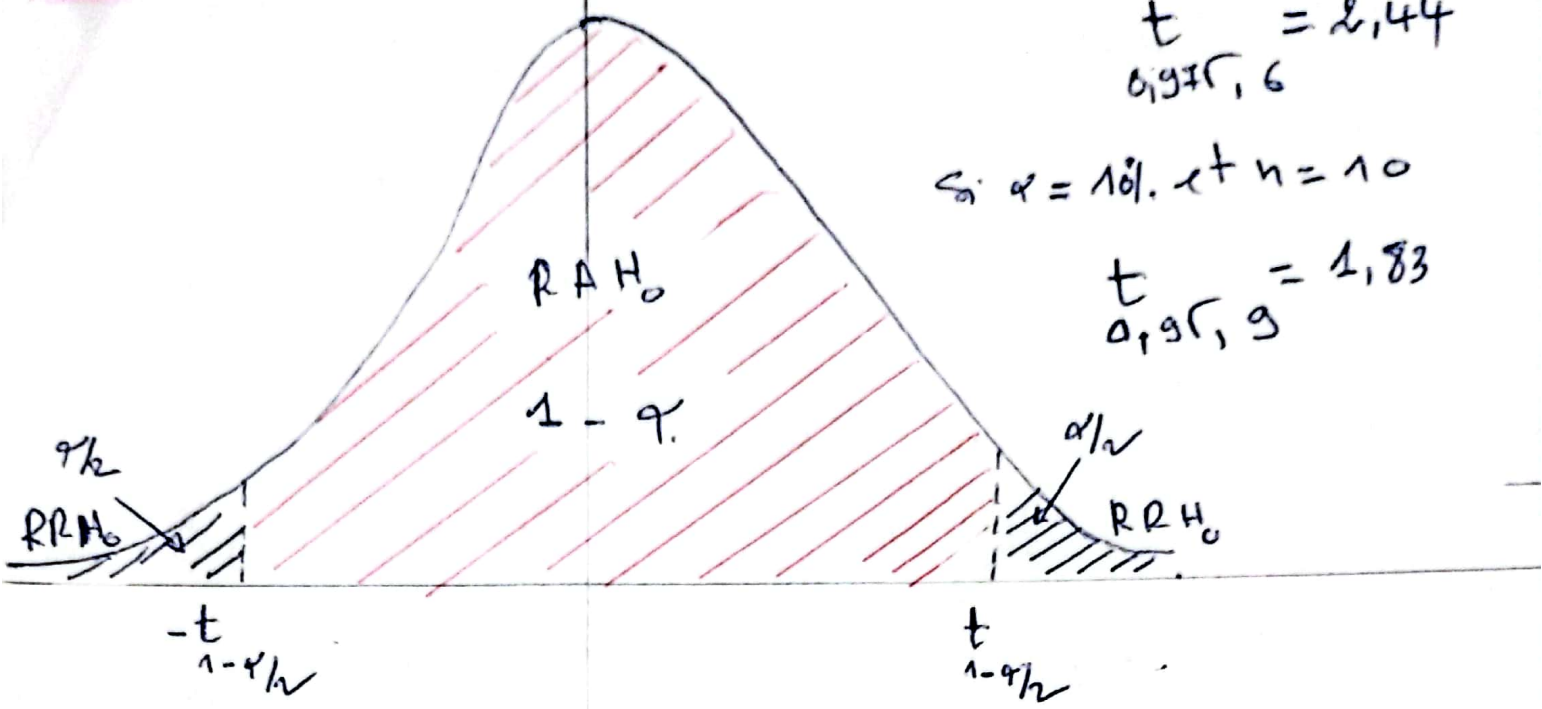
Loi Student

$\alpha = 5\%$ et $n = 7 \Rightarrow$

$t_{0,975,6} = 2,44$

si $\alpha = 10\%$ et $n = 10$

$t_{0,95,9} = 1,83$

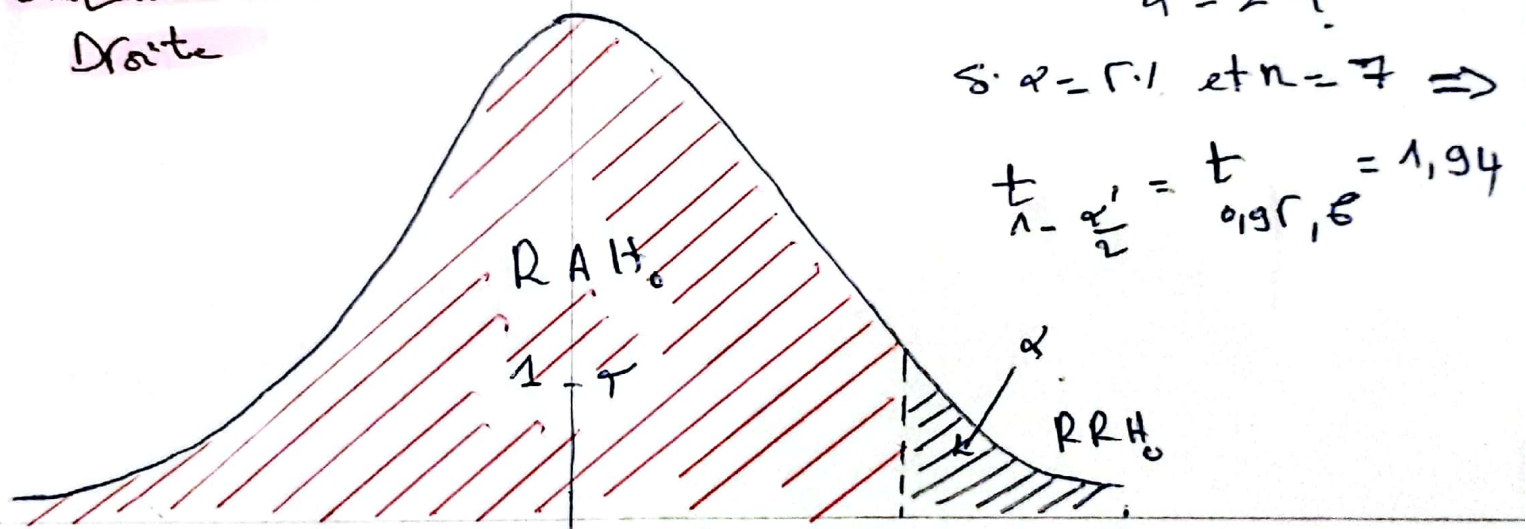


Unilatéral à Droite

$\alpha' = 2\alpha$

si $\alpha = 5\%$ et $n = 7 \Rightarrow$

$t_{1-\alpha'/2} = t_{0,975,6} = 1,94$

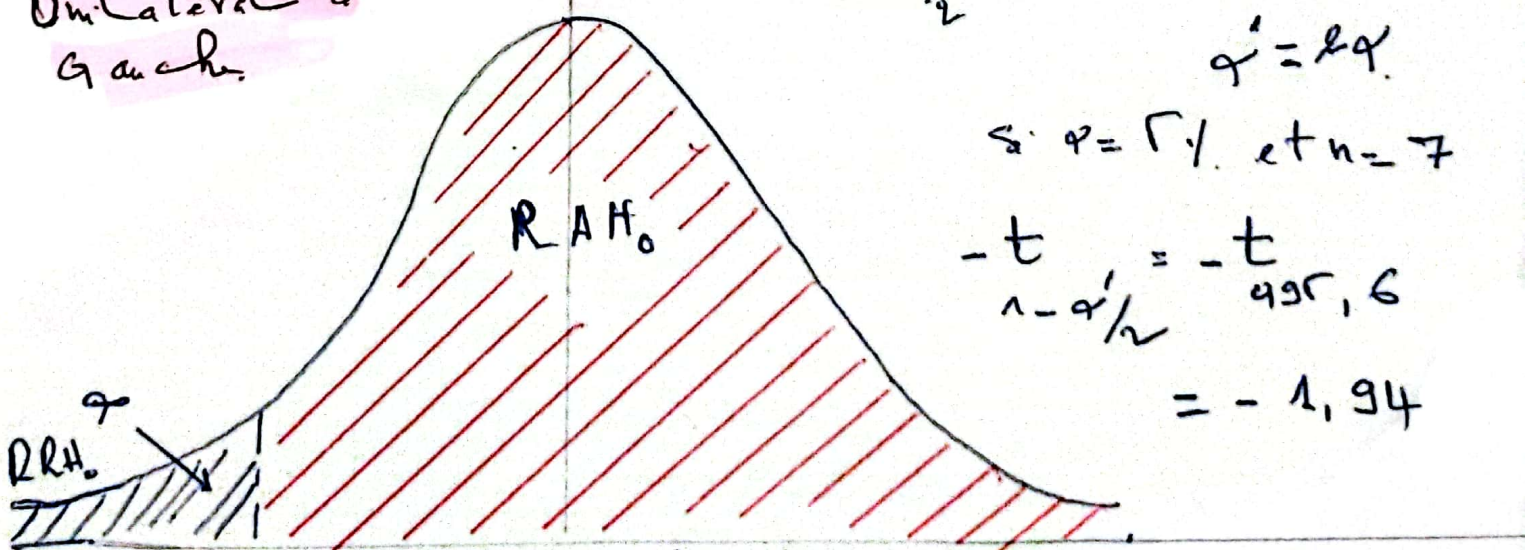


Unilatéral à Gauche

$\alpha' = 2\alpha$

si $\alpha = 5\%$ et $n = 7$

$-t_{1-\alpha'/2} = -t_{0,975,6} = -1,94$



- Test de conformité de Lamoyenne
 - \rightarrow comparaison de 2 moyennes

Bilatéral

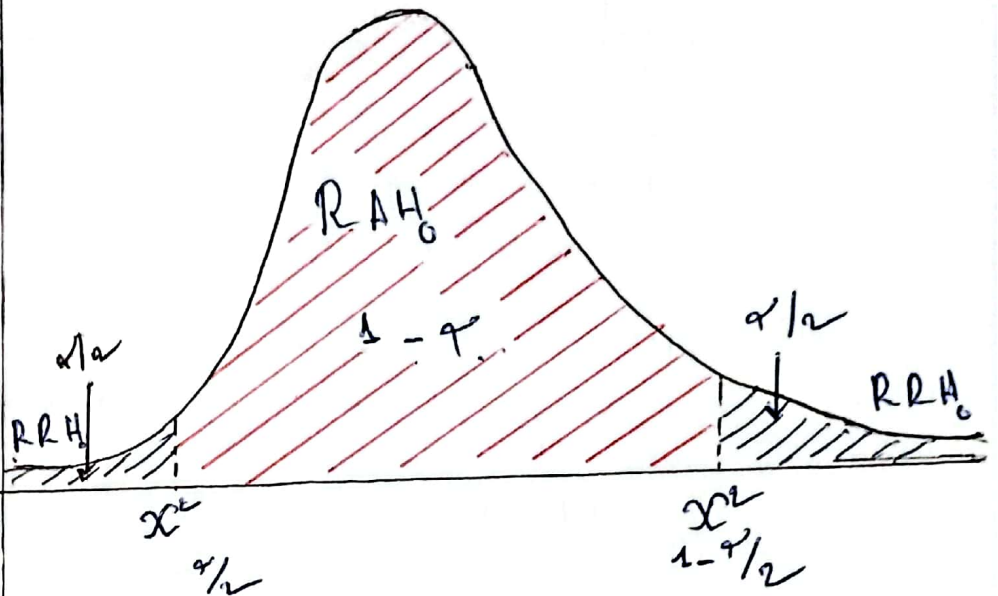
Si $\alpha = \Gamma\%$ et $n = 10$

$$\chi^2_{n-1, \alpha/2} = \chi^2_{9, 0.025} = 19,023$$

$$\chi^2_{n-1, 1-\alpha/2} = \chi^2_{9, 0.975} = 2,70$$

$$\chi^2_{n-1, \alpha} = \chi^2_{9, 0.05} = 16,919$$

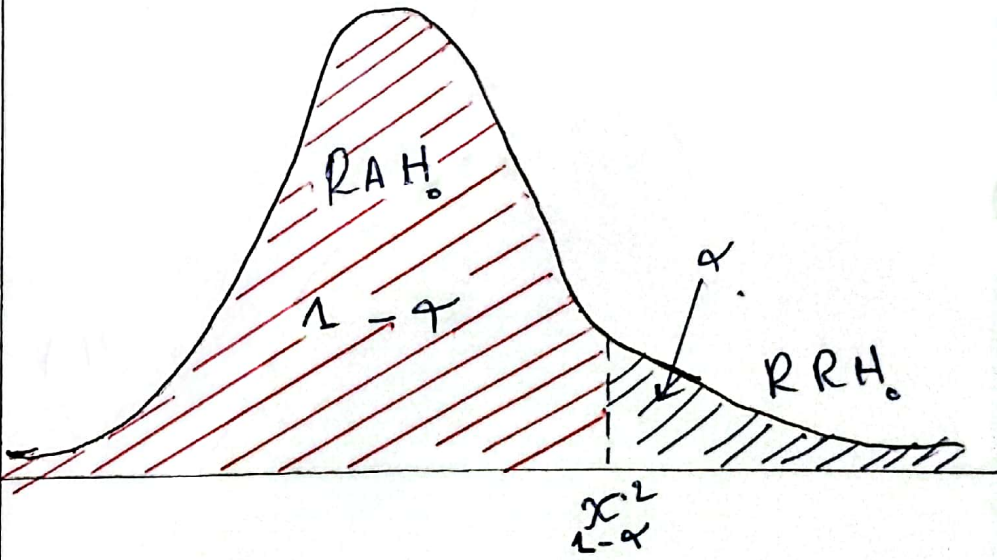
Loi χ^2 - deux



Unilatéral à droite

Si $\alpha = \Gamma\%$ et $n = 10$

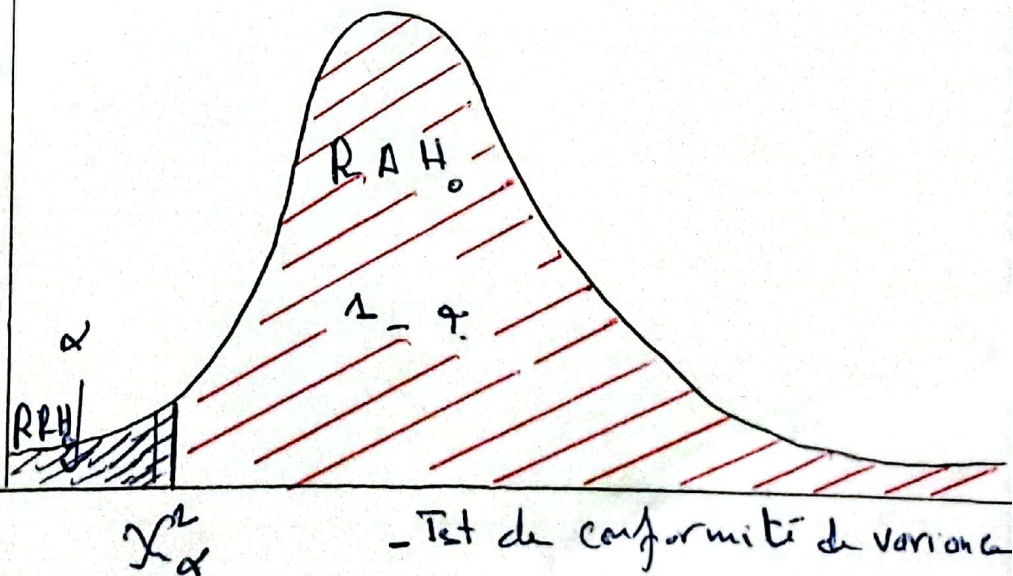
$$\chi^2_{n-1, 1-\alpha} = \chi^2_{9, 0.95} = 16,919$$



Unilatéral à gauche

Si $\alpha = \Gamma\%$ et $n = 10$

$$\chi^2_{n-1, \alpha} = \chi^2_{9, 0.05} = 16,919$$



- Test de conformité de variance

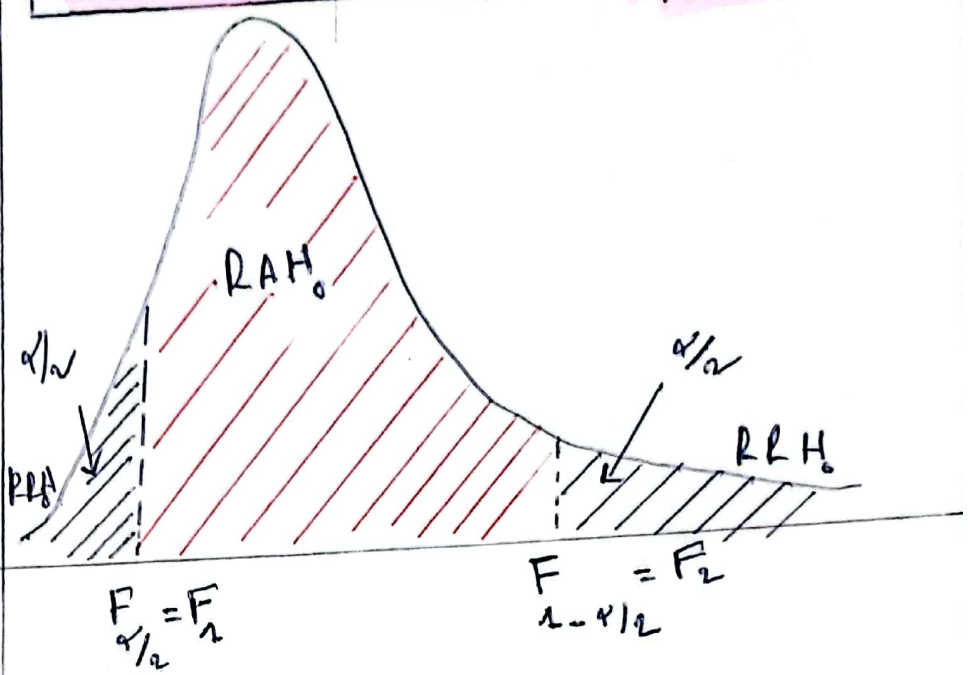
La Loi de Fisher

Bilateral

$$s: \sigma = \Gamma / \sigma, n_1 = 6, n_2 = 11$$

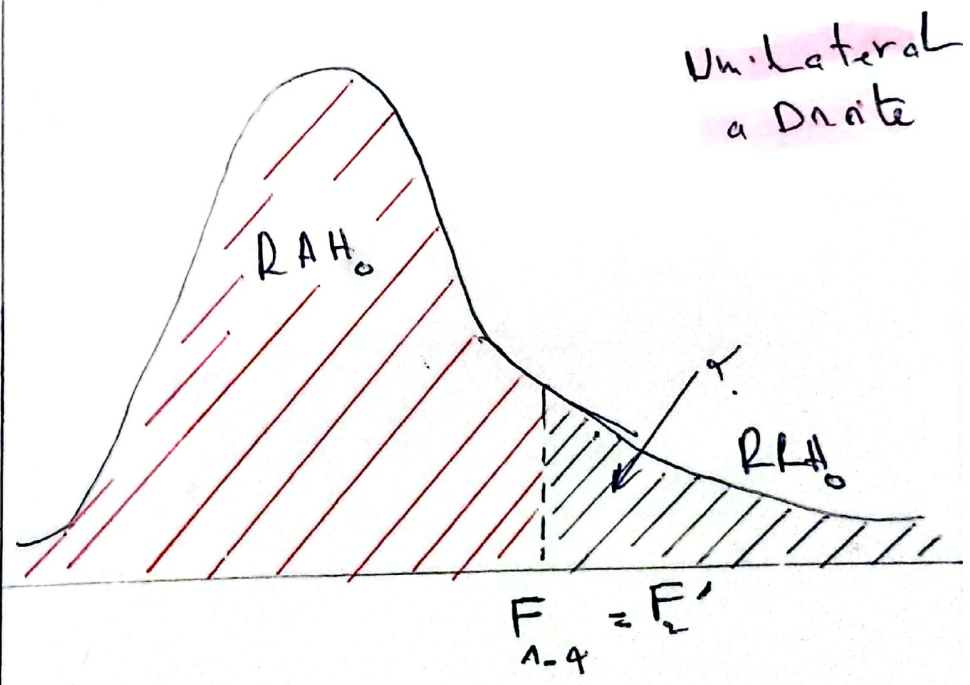
$$F_2 = F_{0,975, n_1-1, n_2-1} = F_{0,975, 5, 10} = 4,24$$

$$F_1 = F_{0,025, 5, 10} = \frac{1}{F_{0,975, 10, 5}} = \frac{1}{1-0,5/2} = \frac{1}{1-0,25} = \frac{1}{0,75} = 1,33$$



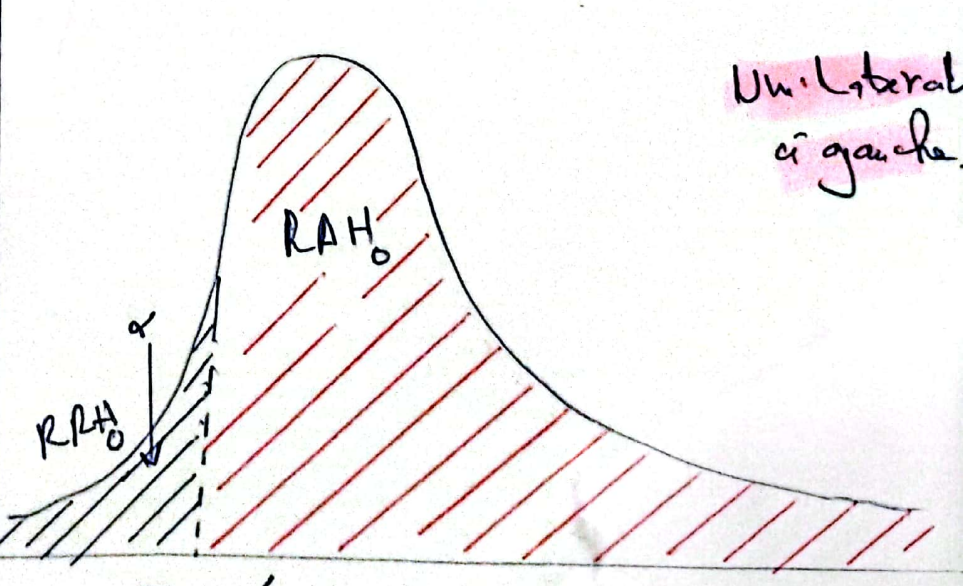
$$s: \sigma = \Gamma / \sigma, n_1 = 6, n_2 = 11$$

$$F_2' = F_{0,95, 5, 10} = 3,33$$



$$s: \sigma = \Gamma / \sigma, n_1 = 6, n_2 = 11$$

$$F_1'' = F_{0,05, 5, 10} = \frac{1}{F_{0,95, 10, 5}} = \frac{1}{4,74}$$



Tet de comparaison de deux (ou) variances - Test d'ANOVA