$$\Gamma_{1,1} = \frac{1}{(\mathrm{var}(M_{fuel}))^2}(\mathrm{cov}(M_{fuel}M_{fuel}^{\{F\}}, M_{fuel}M_{fuel}^{\{F\}}) - S^{\{F\}}\mathrm{cov}(M_{fuel}M_{fuel}^{\{F\}}, M_{fuel}^2)$$
$$-S^{\{F\}}\mathrm{cov}(M_{fuel}M_{fuel}^{\{F\}}, M_{fuel}^2) + S^{\{F\}}S^{\{F\}}\mathrm{var}(M_{fuel}))^2)))$$