LISA

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1 Monochromatic Sources

$$\begin{split} \Gamma_{ij} &= \frac{3}{4}S_a(f_0)^{-1} \sum_{\alpha=1:1} \int_{-\infty}^{\infty} \left[\partial_i A_a(t) \partial_j A_a(t) + A_a^2(t) \partial_i \chi_\alpha(t) \partial_j \chi_\alpha(t) \right] \, dt. \\ &A_a(t) &= 2\pi f_0 t + \varphi_0 + \varphi_{2,\alpha}(t) + \varphi_0(t), \\ &\varphi_{p,\alpha}(t) &= \arctan\left(\frac{A_a F_{s,\alpha}(t)}{A_4 F_{s,\alpha}(t)}\right), \\ &\varphi_{p}(t) &= \arctan\left(\frac{A_a F_{s,\alpha}(t)}{A_4 F_{s,\alpha}(t)}\right), \\ &\varphi_{p}(t) &= 2\pi f_0 t^{-1} R \sin \bar{\theta}_3 \cos \left[\bar{\phi}(t) - \bar{\phi}_3\right], \\ &A_4 &= 2\left(1 + [\cos \bar{\theta}_1 \cos \bar{\theta}_3 + \sin \bar{\theta}_5 \sin \bar{\theta}_5 \cos (\bar{\phi}_1 - \bar{\phi}_5)\right)^2\right\}, \\ &A_4 &= -4e^{\ln A} \left[\cos \bar{\theta}_1 \cos \bar{\theta}_3 + \sin \bar{\theta}_5 \sin \bar{\theta}_5 \cos (\bar{\phi}_1 - \bar{\phi}_5)\right]^2, \\ &A_5 &= -4e^{\ln A} \left[\cos \bar{\theta}_2 \cos \bar{\theta}_3 + \sin \bar{\theta}_5 \sin \bar{\phi}_3 \cos 2\phi_5 \sin 2\phi_5 \sin 2\phi_5 \sin 2\phi_5 \sin 2\phi_5 \sin 2\phi_5, \\ &F_{+,1}(\theta_3, \phi_3, \psi_3) &= \frac{1}{2}(1 + \cos^2 \theta_3) \cos 2\phi_3 \sin 2\phi_5 - \cos \theta_3 \sin 2\phi_5 \cos 2\phi_3 \sin 2\phi_5, \\ &F_{+,11}(\theta_3, \phi_3, \psi_3) &= \frac{1}{2}(1 + \cos^2 \theta_3) \sin 2\phi_5 \cos 2\phi_3 + \cos \theta_3 \sin 2\phi_5 \cos 2\phi_3 \sin 2\phi_5, \\ &F_{+,11}(\theta_3, \phi_3, \psi_3) &= \frac{1}{2}(1 + \cos^2 \theta_3) \sin 2\phi_5 \cos 2\phi_3 \cos 2\phi_3 \cos 2\phi_3 \cos 2\phi_5 \cos$$

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$$\begin{split} \Gamma_{ij} &= 4 \sum_{n=1}^{N} \int_{0}^{10} \frac{\partial h_{i}^{r}(f) \partial_{i} h_{i}(f)}{\partial f_{i}} \, df, \\ &f_{min} &= \left[8^{3/2} \frac{GM}{\sigma^{2}}(1+z) \right]^{-1} \\ \hat{h}_{a}(f) &= \frac{\sqrt{3}}{2} A_{a}(t) A_{i} J^{-1/2} e^{-(t-\rho_{a})(t-\rho_{a})(t-\rho_{a})(t-\rho_{a})(t-\rho_{a})} \\ A_{a}(t) &= \left[A_{a}^{2} F_{+,a}^{2}(t) + A_{a}^{2} F_{+,a}^{2}(t) \right]^{2/2}, \\ A_{a}(t) &= \left[A_{a}^{2} F_{+,a}^{2}(t) + A_{a}^{2} F_{+,a}^{2}(t) \right]^{2/2}, \\ A_{a}(t) &= \left[A_{a}^{2} F_{+,a}^{2}(t) + A_{a}^{2} F_{+,a}^{2}(t) \right]^{2/2}, \\ A_{a}(t) &= \left[A_{a}^{2} F_{+,a}^{2}(t) + A_{a}^{2} F_{+,a}^{2}(t) \right]^{2/2}, \\ A_{b}(t) &= \left[A_{a}^{2} F_{+,a}^{2}(t) + A_{a}^{2} F_{+,a}^{2}(t) \right]^{2/2}, \\ A_{b}(t) &= 2\pi f \frac{1}{6} \inf_{n} A_{a}^{2} \left(A_{a}^{2} + A_{a}^{2} \right) \left(A_{a}^{2} + A_{a}^{2$$