LISA

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1 Monochromatic Sources

$$\begin{split} \Gamma_{ij} &= \frac{3}{4}S_{\alpha}(f_0)^{-1} \sum_{\alpha=1,11} \int_{-\infty}^{\infty} \left[\partial_i A_{\alpha}(t) \partial_j A_{\alpha}(t) + A_{\alpha}^2(t) \partial_i \chi_{\alpha}(t) \right] \mathrm{d}t. \\ A_{\alpha}(t) &= \left[-A_{\alpha}^2 F_{\alpha,\alpha}^2(t) + A_{\alpha}^2 F_{\alpha,\alpha}^2(t) \right]^{1/2}, \\ \chi_{\alpha}(t) &= 2\pi f_0 t + \varphi_0 + \varphi_{p,\alpha}(t) + \varphi_{D}(t), \\ \varphi_{p,\alpha}(t) &= \arctan \left(-\frac{A_{\alpha} F_{\alpha,\alpha}(t)}{A_{\alpha} F_{1,\alpha}(t)} \right), \\ \varphi_{D}(t) &= 2\pi f_0 t^{-1} R \sin \bar{\theta}_{0} \cos \left[\bar{\phi}(t) - \bar{\phi}_{0} \right], \\ A_{+} &= 2t^{\ln A} \left\{ 1 + (\cos \bar{\theta}_{0} \cos \bar{\theta}_{0} + \sin \bar{\theta}_{0} \sin \bar{\theta}_{0} \cos (\bar{\phi}_{1} - \bar{\phi}_{0}) \right] \\ A_{+} &= 2t^{\ln A} \left\{ 1 + (\cos \bar{\theta}_{0} \cos \bar{\theta}_{0} + \sin \bar{\theta}_{0} \sin \bar{\theta}_{0} \cos (\bar{\phi}_{1} - \bar{\phi}_{0}) \right] \\ A_{+} &= -4t^{\ln A} \left[\cos \bar{\theta}_{1} \cos \bar{\theta}_{0} + \sin \bar{\theta}_{0} \sin \bar{\theta}_{0} \cos (\bar{\phi}_{1} - \bar{\phi}_{0}) \right] \\ A_{+} &= -4t^{\ln A} \left[\cos \bar{\theta}_{0} \cos \bar{\theta}_{0} + \sin \bar{\theta}_{0} \sin \bar{\theta}_{0} \cos (\bar{\phi}_{1} - \bar{\phi}_{0}) \right] \\ A_{+} &= -4t^{\ln A} \left[\cos \bar{\theta}_{0} \cos \bar{\theta}_{0} + \sin \bar{\theta}_{0} \cos (\bar{\phi}_{1} - \bar{\phi}_{0}) \right] \\ A_{+} &= -4t^{\ln A} \left[\cos \bar{\theta}_{0} \cos \bar{\theta}_{0} + \sin \bar{\theta}_{0} \cos (\bar{\phi}_{1} - \bar{\phi}_{0}) \right] \\ A_{+} &= -4t^{\ln A} \left[\cos \bar{\theta}_{0} \cos \bar{\theta}_{0} + \sin \bar{\theta}_{0} \cos (\bar{\phi}_{1} - \bar{\phi}_{0}) \right] \\ A_{+} &= -4t^{\ln A} \left[\cos \bar{\theta}_{0} \cos \bar{\theta}_{0} \cos \bar{\theta}_{0} \cos 2\bar{\phi}_{0} \cos 2\bar{\phi}_{0} \sin 2\bar{\phi}_{0} \cos 2\bar{\phi}_{0} \sin 2\bar{\phi}_{0} \cos 2\bar{\phi}_{0} \sin 2\bar{\phi}_{0} \\ A_{+} &= -4t^{\ln A} \left[\cos \bar{\theta}_{0} \cos \bar{\phi}_{0} \cos 2\bar{\phi}_{0} \cos 2\bar{\phi}_{0} \sin 2\bar{\phi}_{0} \cos 2\bar{\phi}_{0} \sin 2\bar{\phi}_{0} \\ A_{+} &= -4t^{\ln A} \left[\cos \bar{\theta}_{0} \cos \bar{\phi}_{0} \sin 2\bar{\phi}_{0} \cos 2\bar{\phi}_{0} \sin 2\bar{\phi}_{0} \cos 2\bar{\phi}_{0} \sin 2\bar{\phi}_{0} \\ A_{+} &= -4t^{\ln A} \left[\cos \bar{\theta}_{0} \cos \bar{\phi}_{0} \sin 2\bar{\phi}_{0} \cos 2\bar{\phi}_{0} \sin 2\bar{\phi}_{0} \cos 2\bar{\phi}_{0} \cos 2\bar{\phi}_{0} \\ A_{+} &= -4t^{\ln A} \left[\cos \bar{\theta}_{0} \cos \bar{\phi}_{0} \cos 2\bar{\phi}_{0} \sin 2\bar{\phi}_{0} \cos 2\bar{\phi}_{0} \cos 2\bar{\phi}_{0} \cos 2\bar{\phi}_{0} \cos 2\bar{\phi}_{0} \\ A_{+} &= -4t^{\ln A} \left[\cos \bar{\theta}_{0} \cos \bar{\phi}_{0} \cos 2\bar{\phi}_{0} \\ A_{+} &= -4t^{\ln A} \left[\cos \bar{\theta}_{0} \cos \bar{\phi}_{0} \cos 2\bar{\phi}_{0} \cos 2\bar$$