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TOON MUSKENS Onderwerp: HW ATTP GW

101) from the tutorial: 01 = 36673 W113 Sawwy 13 96 55 6513 MM213 (tclt) - 3 w 813 = 56 G 513 m n 213 (tc-t) 3 w 8/3 = 36 G5/3 M M2/3 C => W = (8 96 G5/3 MM2/5 C) 8 b1 m2 = M2 M = 2,8 Mo > M(m=m2) = 2 M $\omega = \frac{2\pi}{7175 \times 3600} \approx 2.25 \cdot 10^{-9} \frac{\text{vaid}}{\text{S}}$ $\frac{366^{513}}{50^{513}} \text{ M}^{213} \approx \frac{366^{513}}{50^{513}} \stackrel{1}{2} \cdot 2.8 \text{ M}_{\odot} (2.8 \text{ M}_{\odot})^{2/3} \approx 2.411 \cdot 10^{-58} \text{ M}_{\odot}$ To = (2,25 · 10-4)-8/3 . 3 × 830 · 1064 C) if f= w/TT => w= TTf Worbit = 2 WGW for f = 10 Hz => w = 10 TT and T = To. (10TT.) -8/3 499 sec for f = 100 Hz => W = 100 Trand T= Ti. . (10) = 1,15 dy AT = (Tion Tions) = (Tio - Tion) · (Tin) = 3101 for leaving Lisa frequency and entering Ligolvingo band => $\Delta T = (T_{01} - T_{10}) \cdot (\frac{1141}{50})^{5/3} = T_{10} \cdot (\frac{114}{30})^{5/3} [(\frac{011}{10})^{-8/3}] = T_{10} \cdot (\frac{1141}{30})^{5/3} [(\frac{011}{10})^{-8/3}] = T_{10} \cdot (\frac{1141}{10})^{-8/3}$ es Mo>> Mo => pr MoHo = Mo Ma Mo \$ = 3600.565=24 = 31,71.103 HZ => 36 633 M M213 & 8,67.10-59 - Me - No $\omega \approx 2.10^{-7} \text{ s}^{-1} \cdot \text{vacl}$ $\Rightarrow T = \frac{(2.10^{-2})^{-8/3}}{8.62 \cdot 10^{53}} \cdot 10^{103} \cdot 8 \approx 1.05 \cdot 10^{23} \text{ y}$

Let's be remarkable.



Onderwerp:

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2 ay
$$\varphi = \int \omega dt = \int \left(\frac{36}{5c^{53}} + \frac{1}{1} + \frac{1}{1} + \frac{1}{5}\right)^{\frac{1}{8}} dt$$
 $T = tc - t = \frac{1}{3} \frac{dt}{dt} = -1 \Rightarrow -dT = dt$
 $\Rightarrow \varphi(tT) = -\int \frac{266}{5c^{53}} + \frac{1}{1} + \frac{1}{3} + \frac{1}{3}$



Onderwerp:

Datum:

Pin Pae (
$$\phi^{k}\phi^{l} - N^{k}N^{l}$$
) = $(\phi_{1}\phi_{2} - N_{1}N_{2})^{k}$ $P_{12} = S_{12} - N_{1}N_{2} = 0$

Anne $\ddot{Q}^{k}e^{l}$ = $(\phi_{1}\phi_{2} - N_{1}N_{2}) \times 2\mu r^{2}\omega^{2}$

= $2\mu r^{1}\omega^{2}(+\cos s\cos \phi\cos \phi\cos \phi\cos c\cos \phi)$

= $2\mu r^{2}\omega^{2}(-2\cos s\cos \phi\cos \phi\cos \phi)$

= $2\mu r^{2}\omega^{2}(-2\cos s\cos \phi\cos \phi)$

= $2\mu r^{2}\omega^{2}(-2\cos s\cos \phi)$

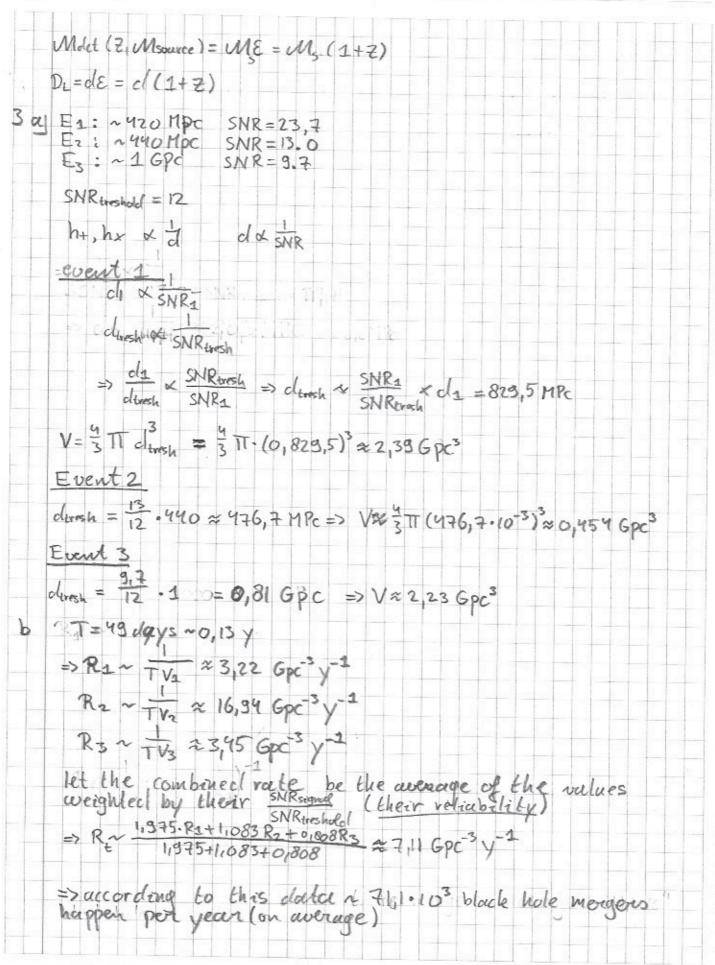
= $2\mu r^{2}\omega^{2}(-2\cos \phi$

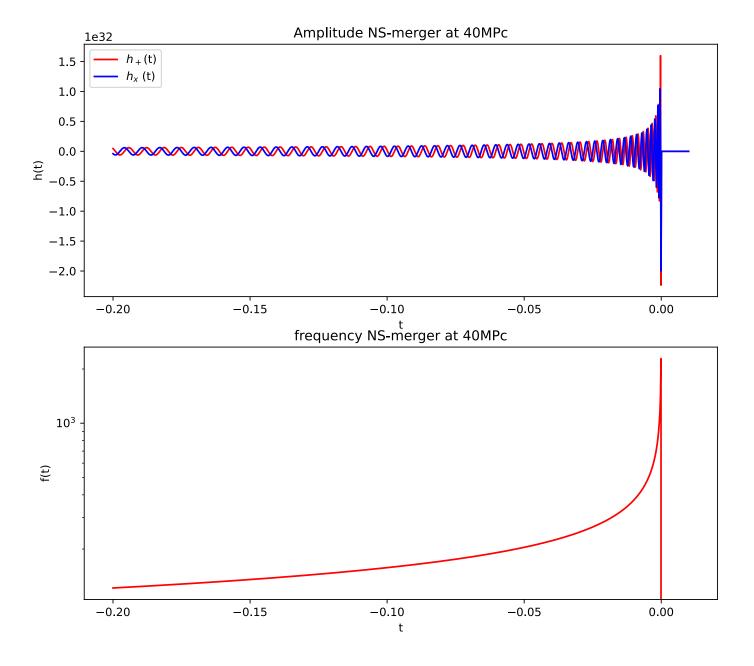
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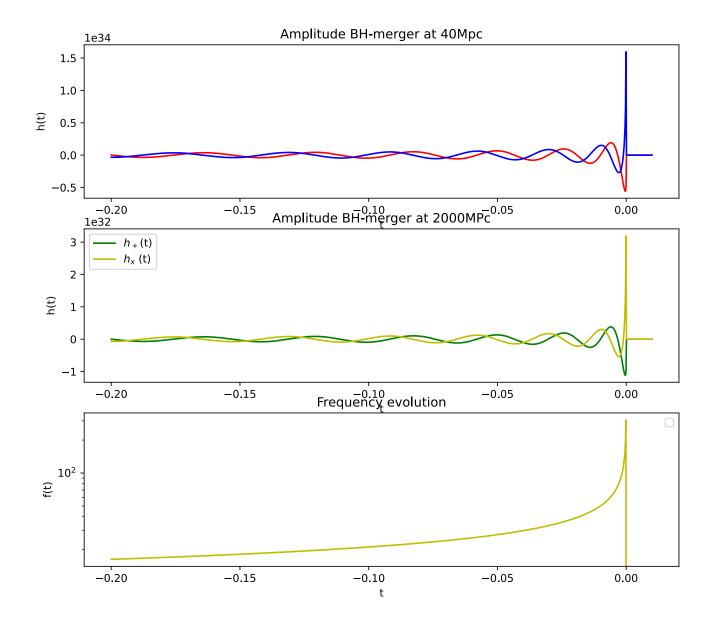
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Datum:





First figure shows the polarisation amplitudes of the NS merger with a mass of 1.4 solar masses The second figure shows the frequency evolution during the inspiraling.



Plots of the BH merger with masses of 36 solar masses, the only difference that is evident from the 40Mpc distance and 2000Mpc distance is that the amplitude for 2000Mpc distance is two orders smaller but the behaviour of both polarisations looks the same.