

$$\begin{aligned}
&g_{\mu\nu}\\
&\bar{x}^\mu=\\
&ds^2=\overline{g_{\mu\nu}dx^\mu dx^\nu}\\
&\overline{dx^\mu}\\
&\overline{dx^\nu}\\
&=\\
&a^2\left(\frac{dr^2}{1-kr^2}+r^2d\phi^2\right)\\
&\overline{k}\\
&\overline{k}\\
&\overline{k}\\
&\overline{k}\\
&\overline{k}\\
&\sin\chi\\
&r\\
&\sinh\chi\\
&g_{\mu\nu}=\overline{\\
&(1,-1,-1,-1)\\
&ds^2=\overline{\\
&c^2dt^2-\\
&(dx^2+\\
&dy^2+\\
&dz^2)}\\
&^{\mu\nu}=\overline{\\
&\frac{8\pi G}{c^4}T_{\mu\nu}.\\
&G_{\mu\nu}^p\\
&T_{\mu\nu}=\overline{\\
&^{\mu\nu}=\\
&(\rho c^2,p,p,p),\\
&\rho c^2\\
&p\\
&ds^2=\\
&0\\
&2=\overline{\\
&c^2t^2-\\
&a(t)^2(\chi^2+\\
&r(\chi)^2\Omega^2)\\
&\Omega^2=\\
&\theta^2+\overline{\\
&\sin^2\theta\phi^2\\
&\chi\\
&r(\chi)=\\
&f_K(\chi)=\\
&\{\sin\chi_{closedcase,positivecurvature}\\
&\chi_{flatcase}\\
&\sinh\chi_{opencase,negativecurvature}\\
&a(t)\\
&\overline{s}\\
&0\\
&\overline{\lambda}\approx\\
&\overline{a}\\
&\lambda_{obs}\frac{\overline{a_{obs}}}{\overline{a_{emit}}}=\frac{\overline{a_0}}{\overline{a_{emit}}},\\
&\overline{\lambda_{obs}}=\\
&\overline{a_0}\\
&\overline{\lambda_{emit}}\\
&\overline{a_{emit}}\leq\\
&\overline{a_0}\\
&\frac{1}{z}\geq\\
&0\\
&H\dot{a}/a\\
&\overline{H_0}\\
&\overline{H}=\\
&0\\
&100h\,,\\
&\overline{h}\approx\\
&0.7^{-1}\approx\\
&10\\
&cH_0^{-1}\approx\\
&\overline{4}??\\
&\overline{2}=\\
&\left(\frac{\dot{a}}{a}\right)^2=\\
&\frac{8\pi G}{3}\rho-\overline{\\
&\frac{Kc^2}{a^2}Friedmannequation\\
&\overline{\dot{a}}=\\
&\frac{4\pi G}{3}\left(\rho+\frac{3p}{c^2}\right)2^{nd}Friedmannequation,\\
&\overline{\rho}=\\
&\rho_m+\\
&\rho_r+\\
&\rho_\Lambda\\
&\rho_m=\\
&\rho_{m,0}\left(\frac{a_0}{a}\right)^3\approx\\
&\overline{a}^{-3}\\
&\overline{\vartheta}_r=
\end{aligned}$$