

RIEM2

Compendium to RIEMANN with some further metrics

ExMe2: examples with further metrics	<pre> RAD 000 Kerr r= 10 CHOM Ex: Metric +Conn, Geodes Info (Anti) de Sitter: Open de Sitter: { "Ope Closed de Sitter: { "C Anti de Sitter: { "Ant Reissner Nordstrom: { Kerr: { { "Kerr" 'rs=2 Kerr Newman: { "Kerr n </pre>	<pre> 5: R=0.0000000000000000 4: R_{\mu\nu}=\frac{\sigma(d-1)}{L^2}g_{\mu\nu} 3: E_{\mu\nu}=-\frac{\sigma(d-1)(d-2)}{2L^2}g_{\mu\nu} 2: -x_0^2+x_1^2+x_2^2+x_3^2+\sigma x_4^2=\sigma L^2 1: ds^2=-dx_0^2+dx_1^2+dx_2^2+dx_3^2+\sigma dx_4^2 </pre>
Info de Sitter metric	<pre> 0: "Open de Sitter" 1: {t r \theta \phi} </pre>	<pre> ExMe2 HxdS2 Ext_{\mu\nu} Subst TOVeq SLin </pre>
Exemple Open de Sitter	<pre> 0: "Open de Sitter" 1: {t r \theta \phi} </pre>	<pre> 3: F(r)=1-\frac{rs}{r^2}+\frac{q^2}{r^2} 2: {t r \theta \phi} 1: {g_{tt}(r,\theta) 0 0 0 0 g_{rr}(r,\theta) 0 0 0 0 r^2 \sin^2(\theta) 0 0 0 0 r^2 \sin^2(\theta)} </pre>
Exemple Reissner Nordström	<pre> ExMe2 HxdS2 Ext_{\mu\nu} Subst TOVeq SLin </pre>	<pre> ExMe2 HxdS2 Ext_{\mu\nu} Subst TOVeq SLin </pre>
Exemple Kerr	<pre> 4: {"Kerr" rs=\frac{2GM}{c^2} a=\frac{J}{Mc} 3: {g_{tt}(r,\theta)=-(1-\frac{rs}{r(r,\theta)}) g_{rr}(r,\theta)=\frac{1}{g_{tt}(r,\theta)}} 2: {t r \theta \phi} 1: {g_{tt}(r,\theta) 0 0 0 0 g_{rr}(r,\theta) 0 0 0 0 r^2 \sin^2(\theta) 0 0 0 0 r^2 \sin^2(\theta)} </pre>	<pre> RIEM2 APPENDIX FOR RIEMANN FURTHER METRICS IN ExMe2 CONNECTION+RIEMANN STEP BY STEP ExMe2 = + ... {x^2} g_{\mu\nu}:[] EXAMPLES FOR H+Conn YOU CAN SUBSTITUTE RELATIONS WITH Subst HxdS2 {x^2} g_{\mu\nu}:[] \leftrightarrow {x^2} ds^2 ds^2=g_{\mu\nu}dx^\mu dx^\nu Ext_{\mu\nu} = + ... example T_{\mu\nu} energy momentum tensor </pre>
Help RIEM2	<pre> ExMe2 HxdS2 Ext_{\mu\nu} Subst TOVeq SLin </pre>	<pre> +SKIP SKIP+ +DEL DEL+ DEL L INS = 4 REAR METRIC CALCULATED WITH H+Conn (RIEMANN) C+riHalt g_{\mu\nu} {x^2} {r^2} + ... g_{\mu\nu} {x^2} {r^2} {r^2} R_{\mu\nu} HALT AFTER EVERY SINGLE R#0. R#0 ARE THEN ADDED TO LIST {R:} ... + ... CONTINUE) AFTER EVERY HALT C+R_{\mu\nu} , d+der SUBPROGRAMS SEE RIEMANN </pre>
Help RIEM2	<pre> Subst 0 {t r \theta \phi} = 1, 2, 3 + 0 SUBSTITUTE VARS V1.. IN OBJECT 0 = 1, 2, 3 PERFORMS d+der TOVeq = + 'eq1' 'eq4' TOLMANN OPPENHEIMER VOLKOV eqns OBTAINED IN RIEMANN SLin eq + eq' SIMPLIFY eq WITH FDISTRIB, LID FOR EACH SUMMAND, EVAL ConnKERR = + {g_{tt}=...} g_{\mu\nu} {x^2} {r^2} g_{\mu\nu} CONNECTION +SKIP SKIP+ +DEL DEL+ DEL L INS = </pre>	<pre> +SKIP SKIP+ +DEL DEL+ DEL L INS = </pre>