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**Algebraic Computing  
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Research Interests

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Fleur homology and its extension to  
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The effect of  
gravitational frequency  
shift on the GPS due to

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general relativity is that a clock closer to a massive object will be slower than a clock farther away. Applied to the GPS, the receivers are much closer to Earth than the satellites, causing the GPS clocks to be faster by a factor of  $5 \times 10^{-10}$ , or about  $45.9 \mu\text{s/day}$ .

## **Error analysis for the Global Positioning System -**

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The difference between special and general relativity is that (1) In special relativity, all velocities are relative, but acceleration is absolute. (2) In general



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relativity, all motion is relative, whether inertial, accelerating, or rotating. To accommodate this difference, general relativity uses curved spacetime.

## **Spacetime - Wikipedia**

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## **BEng Mathematics and Computer Science | Study - Imperial**

EinsteinPy: A Python  
package for symbolic  
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LaTeX Expression

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project: Easy LaTeX typesetting of algebraic expressions in symbolic form with automatic substitution and result computation).

## **SymPy**

Labatut considers Karl Schwarzschild, able to derive in 1915 the first exact solution to Einstein's equations of general relativity while commanding an artillery unit on the

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**No science without  
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true when quantum mechanics is taken into consideration. This paper considers factoring integers and finding discrete logarithms, two problems which are ...

## **Polynomial-Time Algorithms for Prime Factorization ... - SIAM**

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