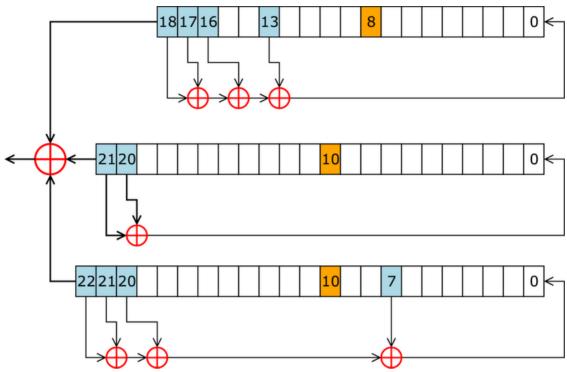
GSM A5/1 cipher

3 different LFSR are initialized with 64 bits

and their output is xored to produce 114 bits at a time

these bits are xored with 114 bits of the data stream and sent every 4.615 msec



pic from Matt Crypto - Wikipedia

```
In [1]: lfsr1:x^19+x^18+x^17+x^14+1
```

Out[1]:
$$x^{19} + x^{18} + x^{17} + x^{14} + 1$$

Out[2]: **true**

Out[3]:
$$x^{22} + x^{21} + 1$$

Out[4]: \mathbf{true}

Out[5]:
$$x^{23} + x^{22} + x^{21} + x^8 + 1$$

Out[6]: **true**

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