

Bij de volgende berekeningen is in cocalc/sage gebruik gemaakt van het programma

Lineaire rasters:

raline (p,m) is priem voor

- $p=1$ and $(m=2k-1$ or $m=2k)$ met k priem
- $p=m-1$ and $(m=2k-1$ or $m=2k)$ met k priem
- $\text{raline}(3,7) = \text{raline}(4,7) = 19$

Voor $m \leq 10000$ zijn geen andere priemgetallen $\text{raline}(p, m)$ gevonden.

Vierkante rasters

```
for u in range(2,151):
```

```
  for t in range(1,floor(u**2/2)+1):
```

```
    a = rasquare(t,u);a=ZZ(a)
```

```
    if is_prime(a):
```

```
      print (t,u,a,is_prime(a))
```

```
(2, 2, 2, True)
```

```
(1, 3, 3, True)
```

```
(4, 3, 23, True)
```

```
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```

```
(6, 4, 1051, True)
```

```
(10, 20, 3224759455808503871, True)
```

```
(25, 31,
```

```
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True)
```

Voor $u \leq 150$ geen andere priemgetallen $\text{rasquare}(t,u)$ gevonden.

Rechthoekige rasters

Rarechthoek is priem, als

- $p=1$ and $n = 2$ and m is $2 \times$ priem
- $p=1$ and $n = 2$ and m 1 kleiner dan $2 \times$ priem

En voor $(m*n, p, m, n, \text{rarechthoek}(p, m, n))$ met $m > n > 1, 0 < p < m*n/2$

```
for ar in range(4,1001):
```

```
  for n in divisors(ar):
```

```
    if n>1 and n<sqrt(ar):
```

```
      m = ar/n
```

```
      for p in range(1,floor(ar/2)+1):
```

```
        if not(p==1 and n==2):
```

```
          rar=rarechthoek(p,m,n);ra=ZZ(rar)
```

```
          if is_prime(ra):
```

```
print
(ar,p,m,n,ra,is_prime(ra))

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