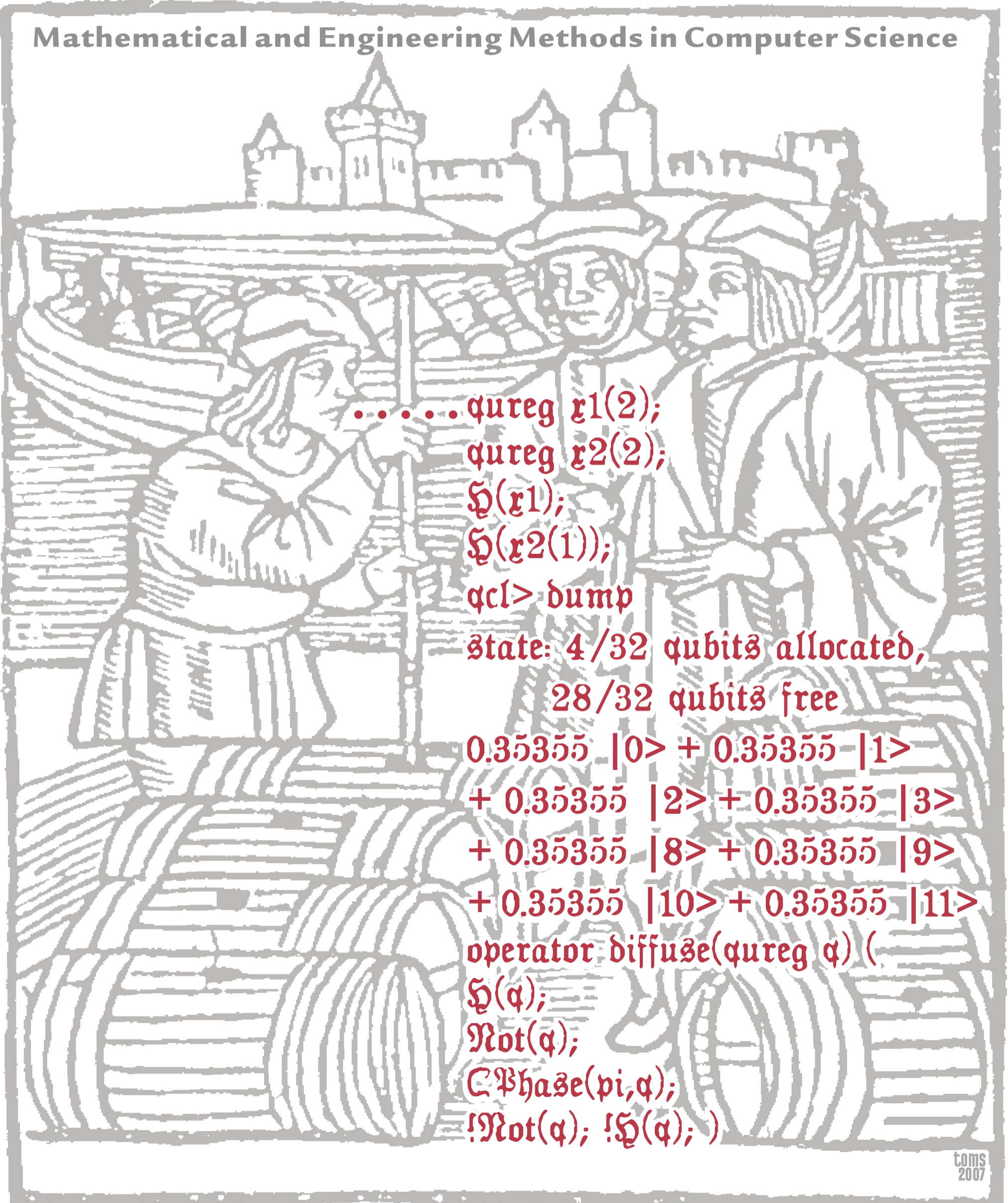


MEMICS

Mathematical and Engineering Methods in Computer Science



```
..... qureg r1(2);  
qureg r2(2);  
H(r1);  
H(r2(1));  
qcl> dump  
state: 4/32 qubits allocated,  
28/32 qubits free  
0.35355 |0> + 0.35355 |1>  
+ 0.35355 |2> + 0.35355 |3>  
+ 0.35355 |8> + 0.35355 |9>  
+ 0.35355 |10> + 0.35355 |11>  
operator diffuse(qureg q) (  
H(q);  
Not(q);  
CPhase(pi,q);  
!Not(q); !H(q); )
```

toms
2007