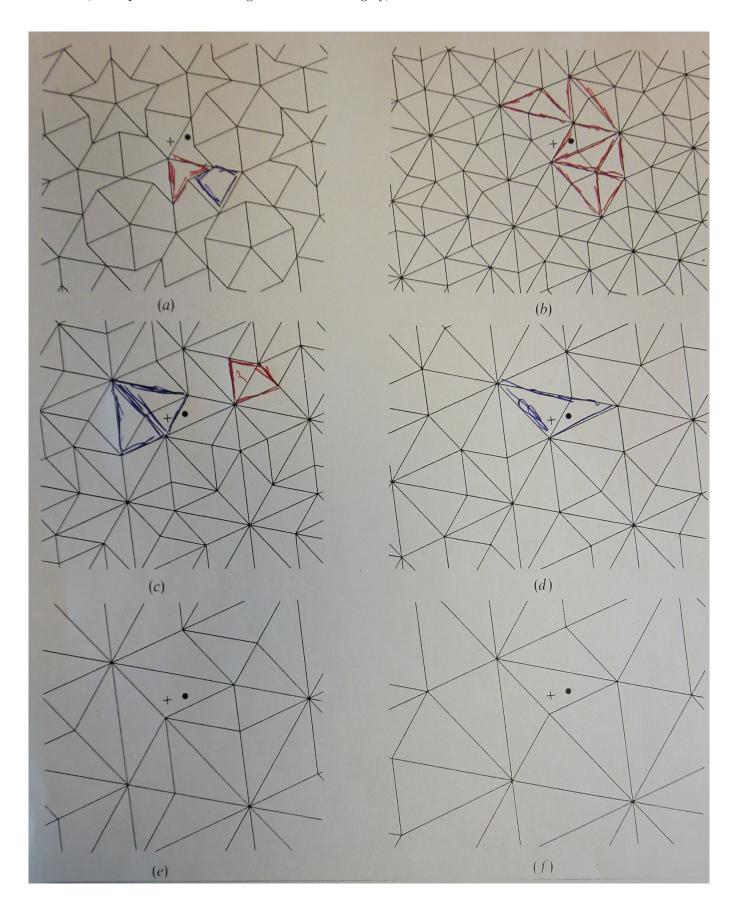
Space of Penrose tilings ref. Paul Smith 1104. 3811

Fails (1) Can tile Micplane in countebly may

(2) Every filing is a periodic

(3) Let X, Y be tilings. Every finile region of X occurs in 1

(4) other



There's a map  $S: (x_0R^2, X) \rightarrow \{0, (3^N) \\ Leasy = 0 \}$   $S = (x_0R^2, X) \rightarrow \{0, (3^N) \\ Leasy = 0 \}$ 

P= Im (8) = Penrae segrences

2 = P

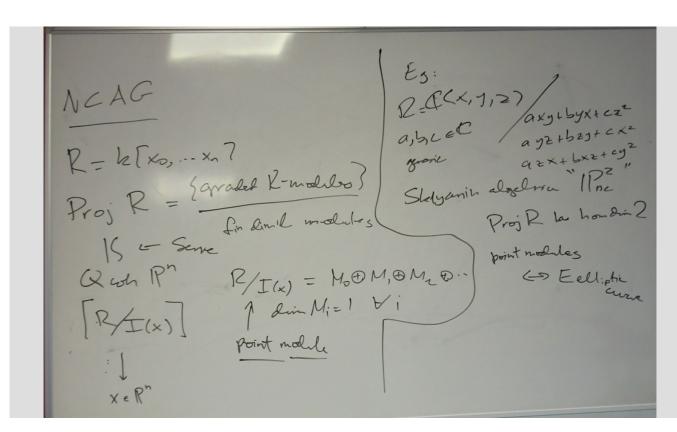
2 = P

2 = 1 = > 2 = 0

2 = 0 -> either 0,1

Hes fried topology

Hes fried topology



B= 
$$C(x,y)/y^2$$

Let  $z \in P$ 
 $M_z$ 
 $S$ -module, and

 $M_z$ 
 $S$ -module

 $M_z = C \cdot m_0 + C \cdot m_1 + C \cdot m_2 + \cdots$ 
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 $M_z = C \cdot m_1 + C \cdot m_2 + \cdots$ 
 $M_z = C \cdot m_1 + C \cdot m$ 

Tads:

(1) Ext (Mz, Mz,) + 0 mm) 2 6 52?

(2) Alain Connes & my 'S C\*-es of "Sundame on & Proj B ~ Mol- S "Proj B is affine"

(3) InProj B have O = O(-1) + O(-2)