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Fractality and growth of He bubbles in metals

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Highlights

- Pinholes formed on metal surfaces by helium plasma irradiation were investigated.
- A power law was identified between the number density and the size of pinholes.
- The fractal dimension and the size ranges to satisfy the power law are deduced.
- Monte-Carlo simulations are introduced to explain the phenomena.
- It included random walks of He atoms and absorption on bubbles.
- The initial position of the random walk is the key factor for the fractality.

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