

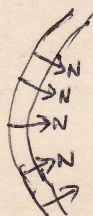
BALLOON MAGNETS

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1985 Dec 19

Earlier ~~was~~ I recorded the possibility of a very large telescope mirror based on an inflated sphere with part of the inner surface silvered. Similar devices should be possible for other parts of the electromagnetic spectrum (eg radio telescopes).

It would also be possible to construct a similar sphere in which the silvering was replaced by an iron oxide film or similar, magnetized with all particles having poles pointing towards the centre of the sphere. This could have useful properties.



BIOMETRIC AUTHENTICATION - 'COPYTEXING PEOPLE'

1985 November 18

The Copytex process records a fibre pattern in the paper of cards used on debit cards for copying etc.

A similar process should be available for people to authenticate their id. Possibilities (apart from existing - fingerprints, voice prints, retina prints, palm prints, lip prints) are: 1) ^{radio}microwave or ultrasonic scans of veins etc inside a finger tip or the face; 2) Another approach to fingerprints, eg structure of material underlying whorls etc; 3) some feature of fingerprints a) pressure or vibration pattern of the whorls b) cough analysis, or analysis of some other sound emission feature c) some sort of non-destructive blood/tissue analysis feature, or some other way of ^{verifying a} genetic-based human feature - eg saliva analysis, hair analysis (possibly still on arms?), sweat analysis, odour analysis

1985-9-26

Check the spectra of two compatible elements (eg Na & K) to see if basic structure dependent on gravitational attraction between nucleus & electron, and if so, if proportional or related to mass of nucleus. If there is a clear relationship between nucleus mass and corresponding spectral line energy, this will imply that a change in the gravitational constant with time will produce a frequency (= energy) shift - and hence tie in with the Red Shift.