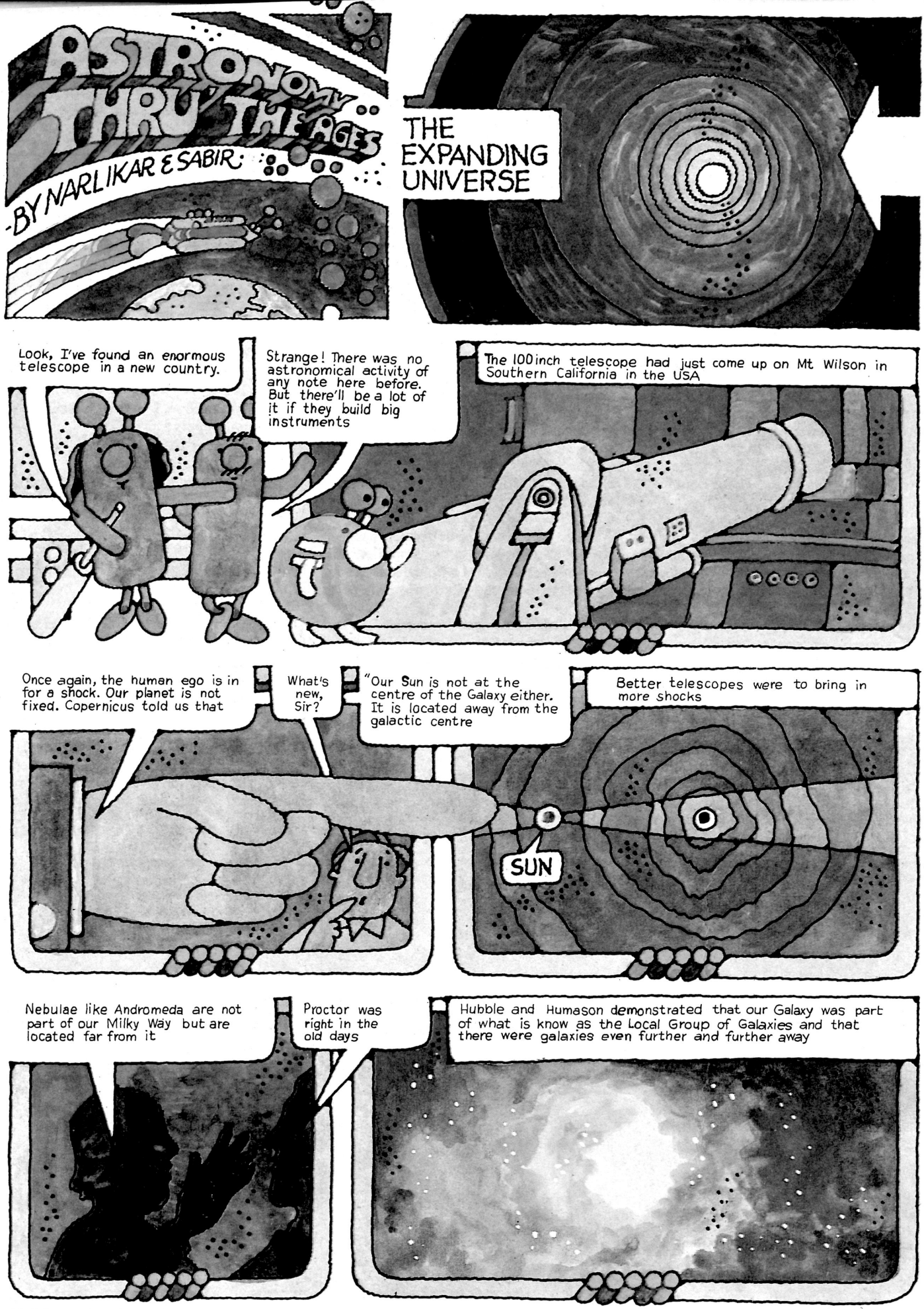
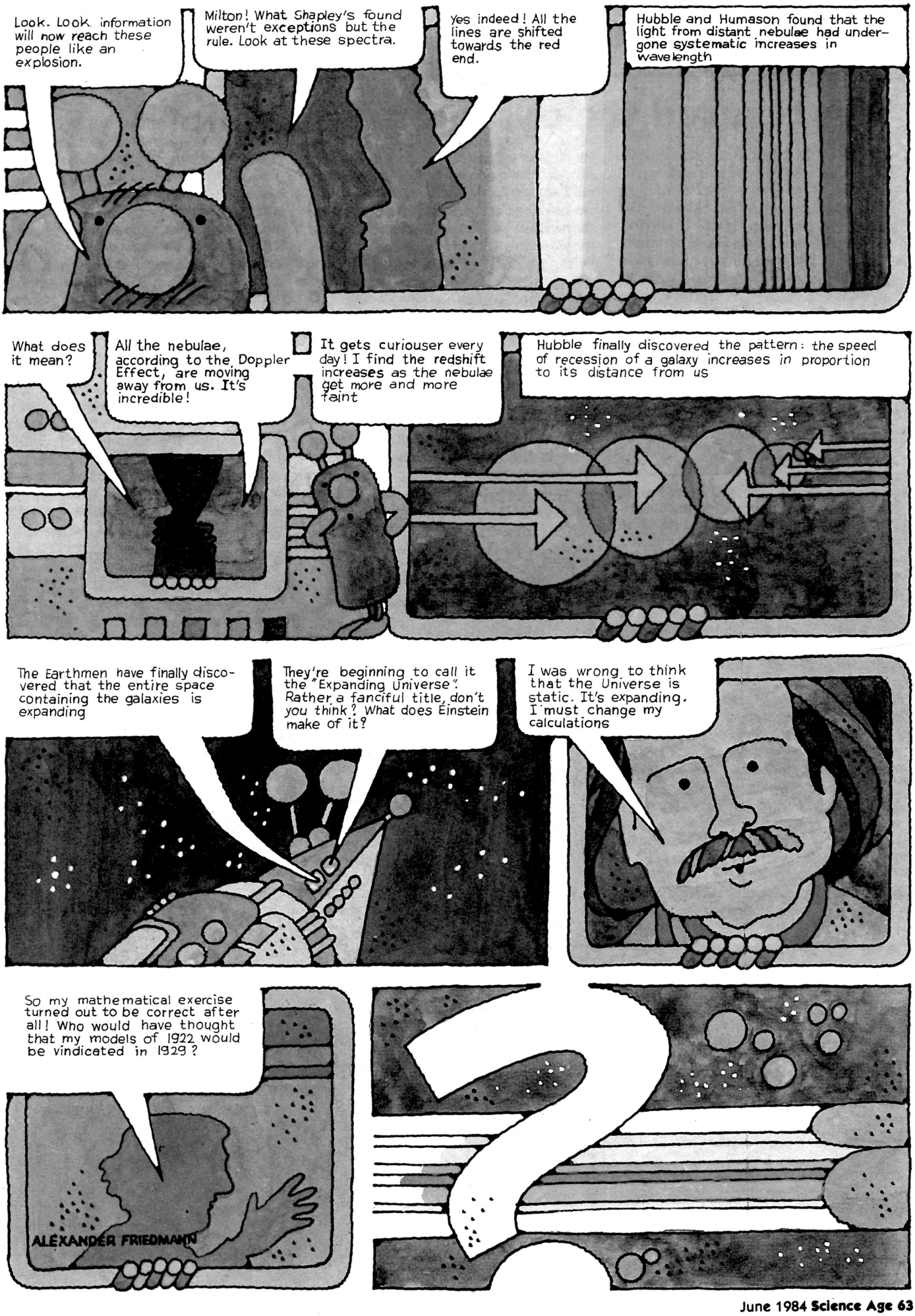

ASTRONOMY THRU THE AGES
-BY NARLIKAR & SABIR
THE EXPANDING UNIVERSE
Look, I've found an enormous telescope in a new country.
Strange! There was no astronomical activity of any note here before. But there'll be a lot of it if they build big instruments
The 100inch telescope had just come up on Mt Wilson in Southern California in the USA
Once again, the human ego is in for a shock. Our planet is not fixed. Copernicus told us that
What's new, Sir?
"Our Sun is not at the centre of the Galaxy either. It is located away from the galactic centre
Better telescopes were to bring in more shocks
SUN
Nebulae like Andromeda are not part of our Milky Way but are located far from it
Proctor was right in the old days
Hubble and Humason demonstrated that our Galaxy was part of what is know as the Local Group of Galaxies and that there were galaxies even further and further away


Look. Look. information will now reach these people like an explosion.
Milton! What Shapley's found weren't exceptions but the rule. Look at these spectra.
Yes indeed! All the lines are shifted towards the red end.
Hubble and Humason found that the light from distant nebulae had undergone systematic increases in wavelength
What does it mean?
All the nebulae, according to the Doppler Effect, are moving away from us. It's incredible!
It gets curiouser every day! I find the redshift increases as the nebulae get more and more faint
Hubble finally discovered the pattern: the speed of recession of a galaxy increases in proportion to its distance from us
The Earthmen have finally discovered that the entire space containing the galaxies is expanding
They're beginning to call it the "Expanding Universe". Rather a fanciful title, don't you think? What does Einstein make of it?
I was wrong to think that the Universe is static. It's expanding. I must change my calculations
So my mathematical exercise turned out to be correct after all! Who would have thought that my models of 1922 would be vindicated in 1929?
ALEXANDER FRIEDMANN
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