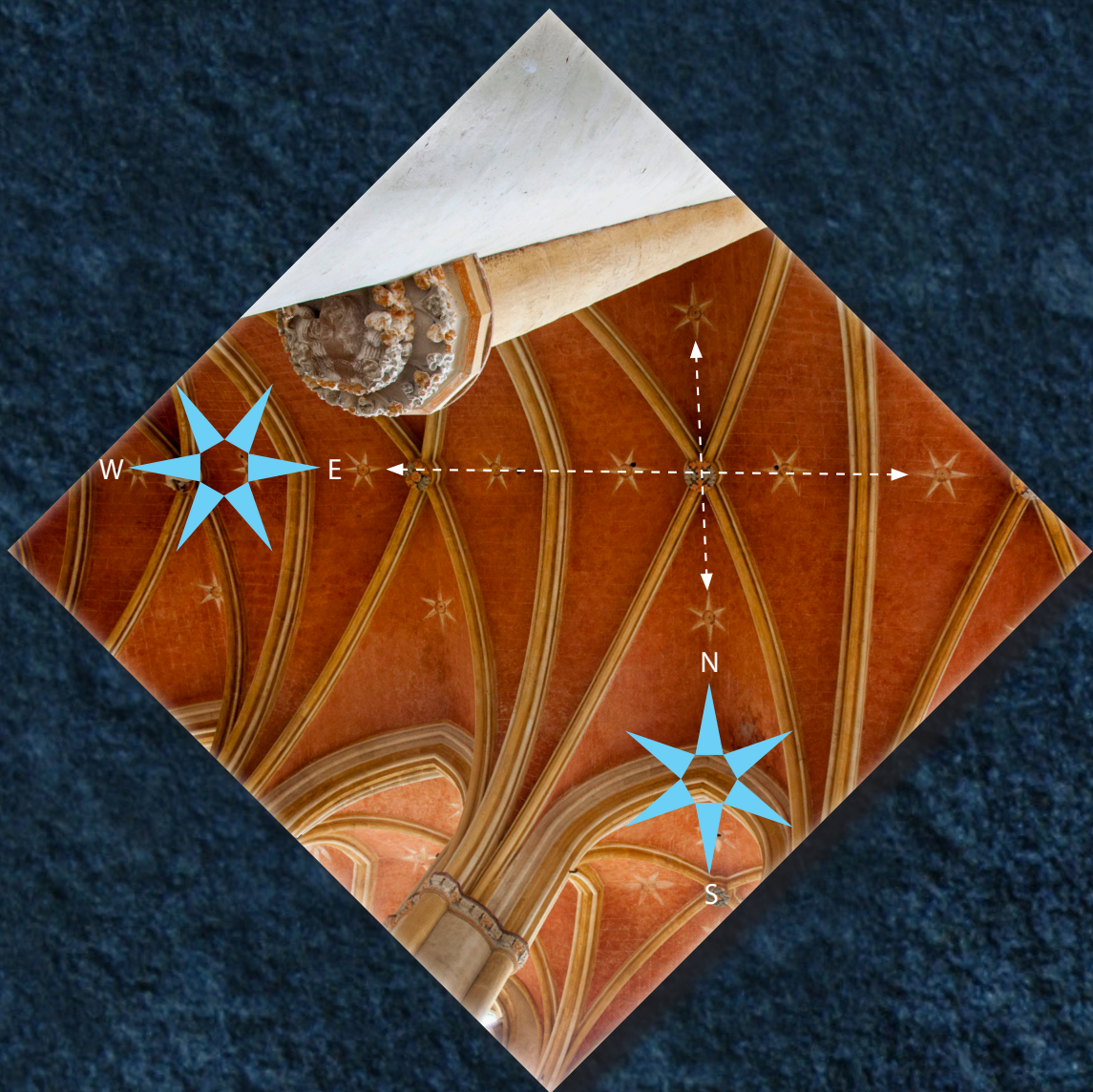


The KLOSTA HAINA Star Vault



Laurie SMITH
HISTORIC BUILDING GEOMETRY

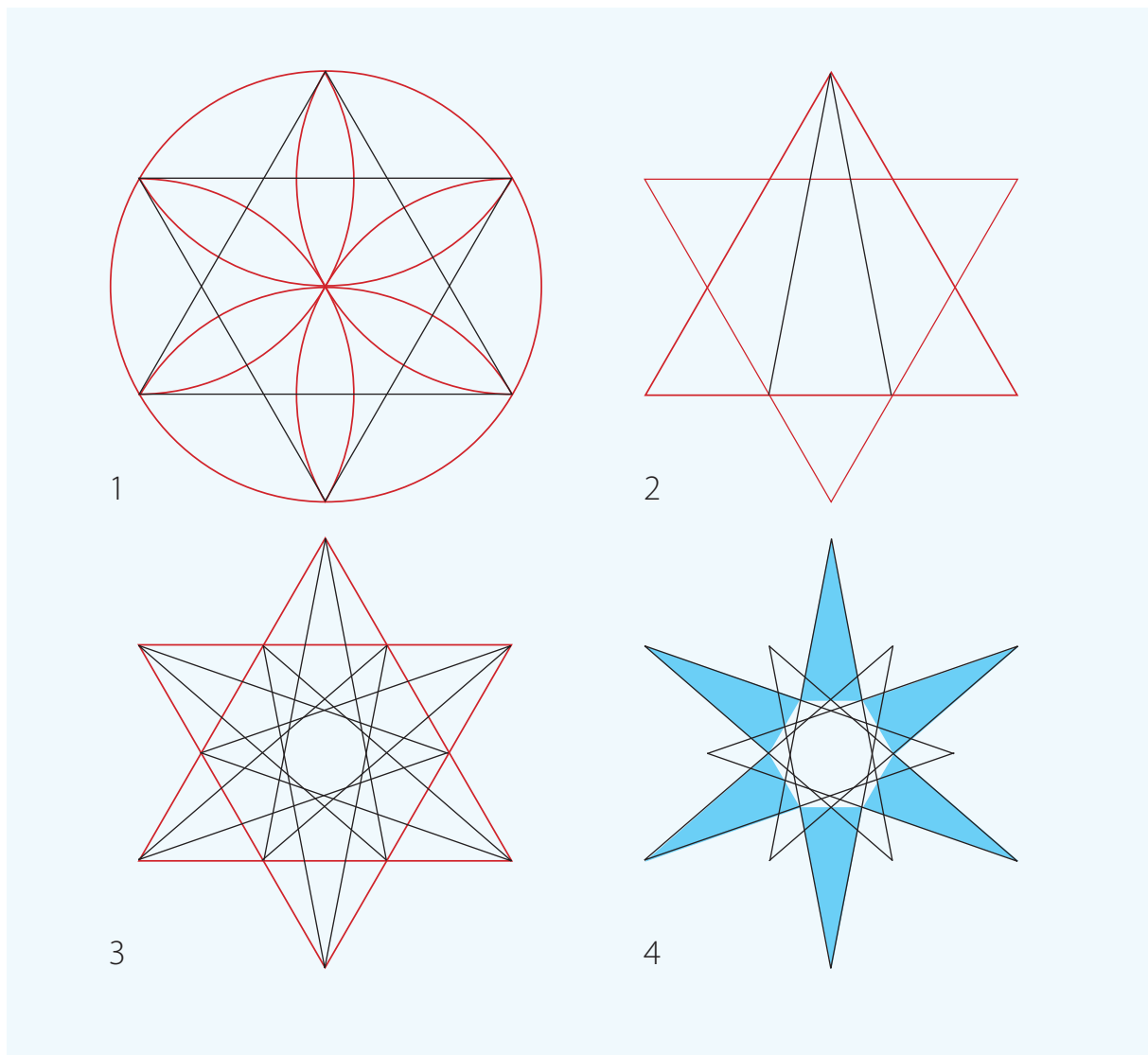


The Star Vault at Kloster Haina, Germany

The photograph of the star vault
from Kloster Haina Abbey in Germany
was taken by **Chris Chapman** www.chrischapmanphotography.com

The drawings on the following pages,
which show the geometrical basis of the star layout,
are by **Laurie Smith** www.thegeometricaldesignworks.com

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Kloster Haina star vault 1 - 4

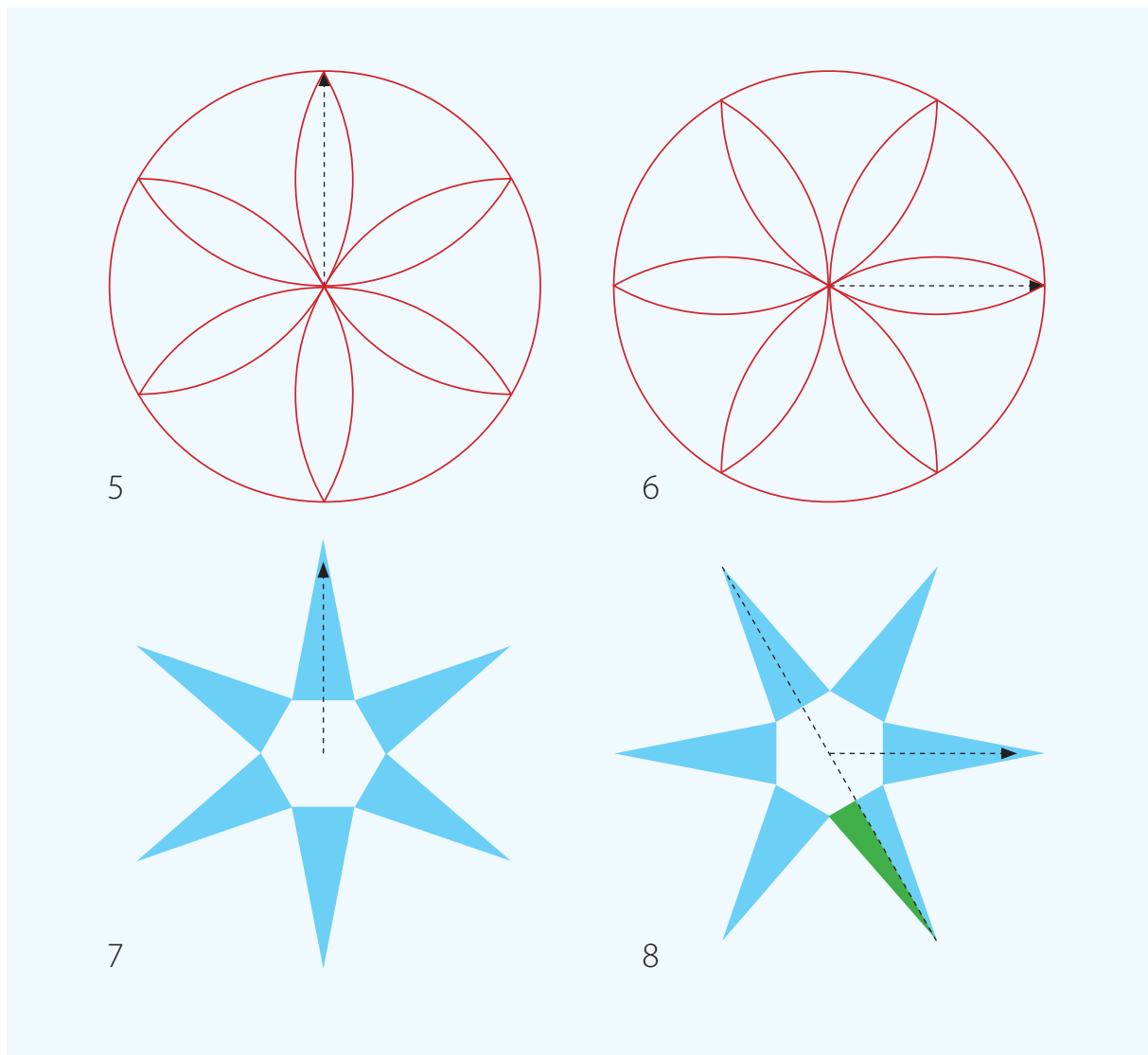
The six point stars painted on the Kloster Haina vault are designed using the daisy wheel.

Drawing 1 shows the compass drawn daisy wheel and the star of David drawn within it by the construction of two equilateral triangles, each linking three alternate petal tips on the wheel's circumference.

Drawing 2 shows the construction of a single stellation within the star of David.

Drawing 3 shows the configuration of all six stellations within the star of David.

Drawing 4 shows the six stellations as blue tone, with their bases determined by the points where their linear border lines intersect. The central space is automatically a hexagon.



Kloster Haina star vault 5 - 8

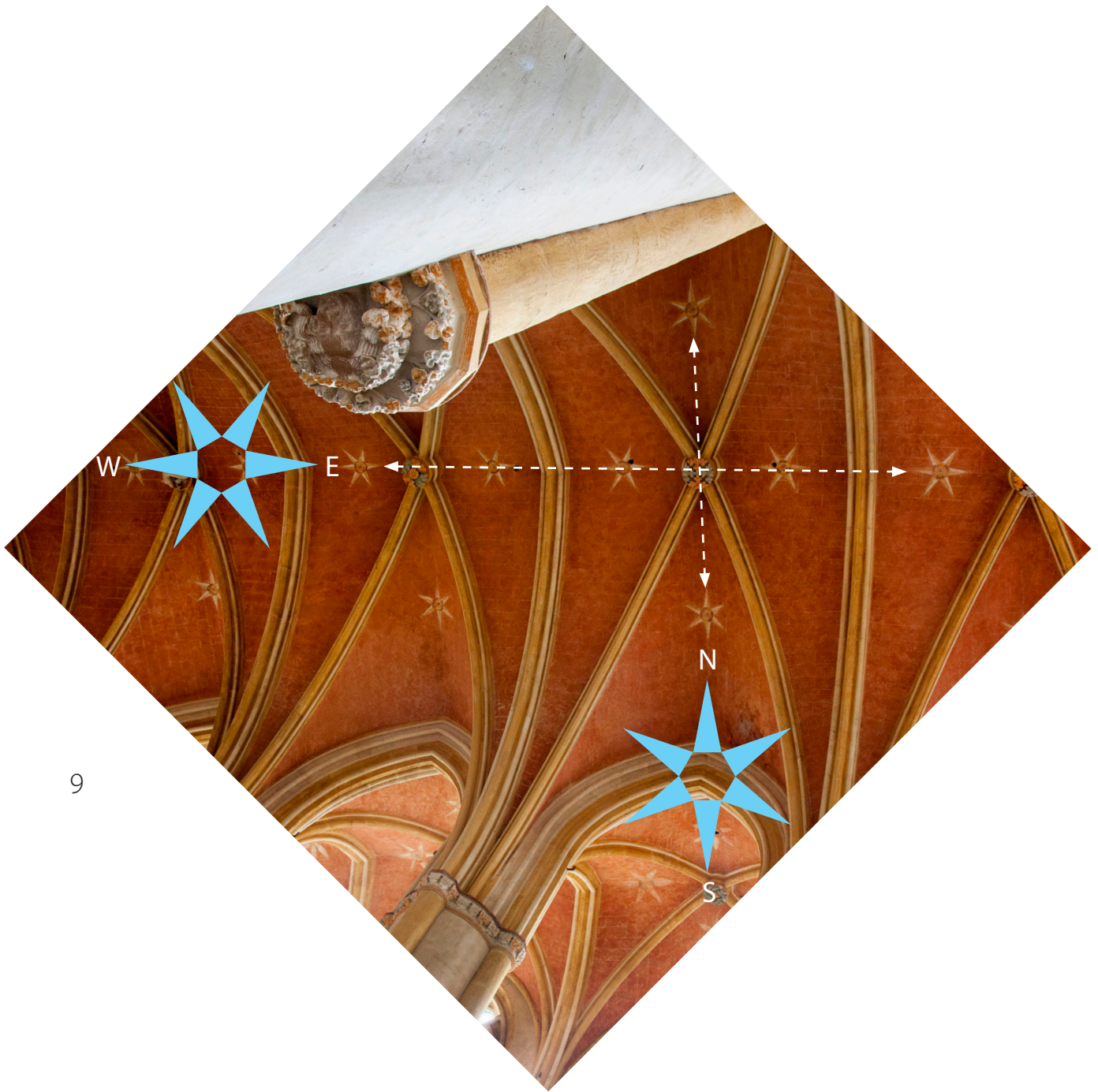
The daisy wheel can be drawn with either vertical or horizontal orientation.

Drawing 5 shows the daisy wheel in vertical orientation.

Drawing 6 shows the daisy wheel in horizontal orientation.

Drawing 7 shows the Kloster Haina star in vertical orientation.

Drawing 8 shows the Kloster Haina star in horizontal orientation. The actual stars are bisected and painted in two colours as shown in the bottom right stellation.



9

Kloster Haina star vault 9

Drawing 9 shows that the stars in the Kloster Haina vault follow a strict orientation in that all stars are aligned along the vault ridges from west to east while the cross vault stars are aligned from north to south. These nave alignments are followed in the aisles.

The star ridge alignments also coincide with the bosses and ribs marking the line of the vault and are spaced half way between them. The two major alignments of the stars, which are at 90° to each other, form a series of crosses along the length of the nave and are thus symbolic expressions of the cross and subliminal expressions of the crucifixion.

These geometries (and others) are universal and are found from molecular to galactic scale within the universe.

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