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2. The beam steering switching system of claim 1, further including at least one optical fiber coupled to a mirror in the first or second array in both the first and second beam steering apparatus.

3. The beam steering switching system of claim 1, wherein the first or second beam steering apparatus operates as a signal input.

4. The beam steering switching system of claim 1, wherein the first or second beam steering apparatus operates as a signal output.

5. The beam steering switching system of claim 1, wherein the first or second beam steering apparatus apparatus operates as a signal input and output.

6. The beam steering switching system of claim 1, further including an array of fibers coupled in a one-to-one correspondence with said mirrors of the first or second array in both said first and second beam steering apparatus.

7. The beam steering switching system of claim 1 wherein one or more mirrors in one or more of the first and second modules are microelectromechanical system (MEMS) mirrors.

8. The beam steering apparatus of claim 1, wherein, in the first beam steering apparatus, each mirror in said first array is optically coupled to a unique mirror in said second array.

9. The beam steering switching system of claim 1, wherein, in the second beam steering apparatus, each mirror in said first array is optically coupled to a unique mirror in said second array.

10. The beam steering switching system of claim 9, wherein, in the first beam steering apparatus, each mirror in said first array is optically coupled to a unique mirror in said second array.

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11. An optical beam steering switching system, comprising

- a) one or more beam steering apparatus; and
- b) one or more photodetectors;

wherein each beam steering apparatus includes:

- i) a first N×M array of mirrors, wherein N and M are integers and each mirror in the first array is configured to rotate about a single first axis;
- ii) a second N×M array of mirrors, wherein each mirror in the second array is configured to rotate about a single second axis;
- iii) at least one optical fiber coupled to a mirror in the beam steering apparatus.

wherein an optical signal may be input to said switching system through the at least one optical fiber and steered onto at least one of the one or more photodetectors.

12. The optical beam steering switching system of claim 11, wherein the one or more beam steering apparatus includes a first beam steering apparatus optically coupled to a second beam steering apparatus,

wherein an optical signal input from a fiber of the first beam steering apparatus may be steered to the photodetector or the second beam steering apparatus.

13. The optical beam steering switching apparatus of claim 12, further comprising a plurality of optically coupled beam steering apparatus, wherein a signal input from any beam steering apparatus may be steered to either the photodetector or another beam steering apparatus.

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